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QUÆSTIONES PHILOSOPHICÆ

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Ad calcem ſubjicitur

APPENDIX de Legibus Diſputandi.

Operâ THO. JOHNSON, A. M.
Coll. Magd. Cantab. Soc.



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CUM tertio abhinc anno Moderatoris partes in ſcholis philoſophicis ſuſtinuerim, & animum, ut par erat, ad ea quæ ratio muneris poſtulare videbatur, penitus adjunxerim; nihil prius aut antiquius habui, quam ut vobis eſſet in manibus liber aliquis, qui in delectu *Quæſtionum Philoſophicarum* habendo, atque in notitiâ

auctorum, qui ſingulas illuſtrarunt, comparandâ adjumento eſſe poſſit. Eâ mente, & ſpe Quæſtionum ſeriem inſtitui, earum ſcil. quas arbitrabar diſputationibus veſtris materiam præbere poſſe. Protinus typis mandantur: in veſtrum uſum prodeunt, emptores facile inveniunt. Quod cum mihi notum fecit Bibliopola, ſignificans libellum iſtum utut rudiorem & imperfectum a plurimis tamen deſiderari, id rogatu ſuo a me impetravit, ut editionem alteram adornarem. Re mecum penſitatâ, facile judicavi cùm Quæſtionum tum Auctorum uberiorem copiam plurimo cum fructu ſuppleri poſſe. Eo conſilio totum librum recenſui, cum tandem ad eam, quam videtis, molem excreverit, non ingentem quidem, nec profectò, ſi materiam quam complectitur

plectitur ſpectemus, valde exiguam. Denique præter rerum ubertatem, ea acceſſit forma & habitudo, ut alterum potius dixerim parari librum quam editionem, cui quas ineſſe volui commoditates, paucis a me accipite.

Auctores, quorum plurimos accedere dixi, non ſolum Libri, Capitis & Commatis vel Paginæ deſignatione expreſſi; verum etiam ſuâ unumquemque Hypotheſi diſtinxi, atque in tot Partes vel Sectas diſtribui, quot de unoquoque Quæſito crearunt Philoſophorum Opiniones. Unde duplex enaſcetur commodum; ut ſi cui minus ſuppetat vel otium vel Facultas plurimos auctores conſulendi, ex tanto delectu deſumat eum, qui ſibi viſus fuerit commodiſſimus: deinde ut uni-

unicuique uno intuitu pateat, quænam Hypotheſis optimis & probatiſſimis auctoribus comprobetur. "Etſi enim id probare non poſſumus, quod de *Pythagoreis* accepimus; quos ferunt ſi quid affirmarent in diſputando, cum ex iis quæreretur, quare ita eſſet, reſpondere ſolitos, *ipſe dixit*:" * (ſive ſit ipſe *Pythagoras* ſive *Ariſtoteles*) Attamen non cum quibuſdam aliis dicimus auctoritatem pro nihilo ſemper habendam eſſe, rationum momenta ubique eſſe quærenda. Apud homines vel negotiis occupatos vel ab uſu librorum disjunctos ſemper valuit Auctoritas & valebit ſemper.

Deinde non intra Scholæ aut Academiæ fines me continui, ut diſ-

* *Cicero* de Nat. Deor. I. 5.

putationibus

putationibus veſtris ſolummodo materiam adminiſtrarem, verum de omni, de quo quæri ſolet, vel, ut aiunt, *de quolibet ente* quæſtiones collegi: adeo ut univerſa pæne Philoſophia, quæ in contentionem venire poſſit, uno pateat intuitu ad Syſtematis modum compoſita & digeſta. Hodiernâ igitur Philoſophiâ in generalia quaſi capita diſpertitâ & in certas claſſes diſtributâ, Juventus Academica his tabulis adjuta, in *locos communes* facile digeret quæcunque inter legendum occurrant notatu digniora; auctoreſque ſubinde novos, uti à prelo exierint, ſuis ſedibus addicet.

Appendicis loco ſubnectitur de Legibus Diſputandi brevis monitio à cl. *Heerebordo* olim conſcripta; non animo conditiones cæteris præ-
ſcribendi

ſcribendi aut quaſi voluerim meo more inter diſputandum agi, ſed quia obſervaverim Juventutem noſtram diſputantem nullis legibus facile ſe pati contineri, interea dum meliores prodierint commodum ratus, has potius obſervari quam nullas.

Coll. *Magd. Cantab.*
Nonas *April.*
M.DCC.XXXV.

THO. JOHNSON.

Quæſtiones Philoſophicæ.

CAPUT I.

QUÆSTIONES PHYSICÆ; *vel*, DE CORPORE *in genere.*

1. UTRUM Methodus ratiocinandi analytica & experimentalis in Phyſicis diſciplinis ſit præferenda?

Affirmant *Baconus* in Nov. Organ. L. i. Aphor. 19. ſeqq. *Newtonus* in Optice ſub finem. Bp *Sprat*'s Hiſtory of the Royal Society *paſſim*. Dr. *Pemberton*'s View of Sir *Iſaac Newton*'s Philoſophy, Introduct. *Locke*'s Eſſay on Hum. Und. B. iv. c. 12. § 10. Dr. *Shaw*'s Abridgment of Mr. *Boyle*'s Works, Vol. I. P. i. *Chambers*'s Dictionary, ad vocem EXPERIMENTAL.

In Hypotheſibus plus æquo fiduciæ habuêre veteres; (*Bacon*. loc. citat. Aph. 45.)

Et *Carteſius* aliique. *Pemberton*'s Introd. p. 7. *Friend*'s Chym. Præl. p. 152. *Hales* Stat. V. II. Pref. p. 12. Eas autem non prorſus repudiandas eſſe docet *Lockius* de Intellectu humano. L. iv. c. 12. § 13.

Ex cauſis finalibus ratiocinari licet, ſed cautè. *Boyle* on final Cauſes; or, *Shaw*'s Abridgment, V. II. p. 150. *Antonius Le Grand* in Philoſ. Inſtitut. P. iv. c. 25.

Ex analogia ratiocinari æquum eſt in Rebus Phyſicis. *Locke* on Hum. Und. L. iv. c. 16. § 12.

2. *Utr.* Corpus ſit adæquatum Phyſices objectum?

Aff. Plerique e philoſophis recentioribus. Vid. *Jac. Ode* Princip. Natur. Philoſ. L. i. Def. 2. p. 2. *Graveſande* Phyſices Elem. Math. L. i. c. 1.

Sunt, qui Phyſices campum latius extendunt, præſertim e veteribus. Vid. *Ariſtot.* de Anima, L. i. c. 1. *Franciſci Bayle* Inſtitut. Phyſic. Tom. I. Proleg. § 10.

Diſputatio de hac re inſtituitur in *Philoſophia Burgundia*, Tom. II. c. 1. p. 668.

3. *Utr.* Detur in rerum natura ARISTOTELIS materia prima?

Neg.

Neg. Anton. Le Grand Inſtitut. Philoſ. P. iv. c. 1. *Fr. Bayle* Inſtit. Phyſic. Tom. I. p. 14, 20. Nec ſunt, qui affirmant præter Scholaſticos quoſdam mentem *Ariſtotelis* haud recte aſſequentes. Huic affinis eſt Quæſtio

4. *Utr.* Detur forma ſubſtantialis ab ipſâ ſubſtantiâ diſtincta?

Affirmârunt Scholaſtici quidam doctores, prave *Ariſtotelem* interpretantes Latine. Vid. *Jac. Ode* Philoſ. Natur. Princ. L. ii. S. 1. c. 3. p. 50. In ſaniori ſenſu *Philoſòphi* mentem explicuere Græci interpretes, aliique recentiores, utì notat *Sturmius* in Phyſic. Elect. Tom. I. p. 78, 382. Conf. *Ariſtot.* Metaph. c. 2. & Phyſ. l. 2. c. 3. *Euſtach.* Phyſ. p. 123.

Neg. Rohault. Phyſ. P. i. c. 6. *Clerici* Phyſic. L. v. c. 1. § 12. & c. 6. *Gliſſon.* de Subſtantia, c. 7.

Hæc materia ex utraque parte diſputatur in *Philoſ. Burgund.* Tom. II. c. 2. p. 684.

5. *Utr.* Quatuor ſint corporum Elementa; *viz.* Terra, Aqua, Aer & Ignis?

Aff. Ariſtot. de gener. & corrupt. c. 2, 3. Metaph. L. v. c. 5. *Euſtach.* Phyſ. p. 207.

Neg. Philoſophi recentiores. *Jac. Ode* Philoſ. Natur. Princ. L. ii. S. 1. c. 4. p. 54. *Clerici* Phyſ. L. v. c. 1. § 13, 14.

Veterum ſententias de Elementis expoſuere *Rohault.* Phyſ. P. i. c. 19, 20. *Sturm.* Phyſ. Elect. Tom. II. p. 15. *Buddei* Theoret. Philoſ. P. v. c. 3. § 2.

Quæſtio fuſe excutitur in *Philoſ. Bur.* Tom. II. Diſſert. iii. p. 716.

6. *Utr.* Tria ſint corporum Elementa vel Principia?

Aff. Carteſ. Princ. Philoſ. P. iii. § 69, 70. & P. iv. § 6, 7. *Le Grand* Inſtit. Phil. P. iv. c. 6. *Claubergii* Opera Phyſ. p. 33. *Rohaulti* Phyſ. P. i. c. 21.

Ambigitur in *Philoſ. Burgund.* Tom. II. Diſſert. ii. c. 3. *Franc. Bayle* Inſtit. Phyſ. Tom. I. p. 384.

Neg. Jac. Ode Philoſ. Nat. Princ. L. ii. S. 1. c. 4. p. 57. Varias Philoſophorum opiniones de Elementis conciliare inter ſe aggreditur *Buddeus* in Philoſ. Theor. P. v. c. 3. § 13.

7. *Utr.* Elementa maneant in mixto?

Aff. Ariſtot. de Cœlo, L. iii. c. 3. De Generat. L. i. c. 7. *Euſtach.* Phyſ. p. 222.

8. *Utr.*

8. *Utr.* Unicum ſit omnium corporum Elementum? Sive

Utr. Omnia corpora conſiſtant ex corpuſculis primogeneis, incompoſitis, & in alia minora non reſolvendis?

Affirmarunt e vetuſtiſſimis Philoſophis *Democritus*, *Epicurus*, cæterique qui vocantur *Atomiſtæ*. Vid. *Lucret.* L.i. v. 549. *Plutarch.* de Plac. Philoſ. L. i. c. 3. *Cudworth*'s Intellectual Syſtem, Ch. i. § 5. & paſſim.

Negat *Carteſius* cum ſuis. V. Libros ſupra citatos Qu. 6.

Affirmant viciſſim *Newtoniani*. V. *Newton.* Princ. Math. L. iii. in pr. p. 388. Ejuſdem Optic. p. 313. *Muſſchenbroek* Elem. Phyſ. Math. § 61, 83, 383. *Joan. Keilii* Epiſtola de leg. Attractionis, Theor. iii. Dr. *Cheyne*'s Philoſ. Princ. Ch. ii. p. 59. *Gaſſendi* Syntagm. Philoſ. Epic. P. ii. S. 1. c. 4. p. 238. *Stairius* in Nov. Exper. Explic. ii. S. 1. *Boyle* on the Principles of Natural Bodies. *Ray* on the Creat. p. 68, 85.

Varias Philoſophorum opiniones de hac re vid. apud *Buddei* Philoſ. Theoret. P. v. c. 3. *Jac. Ode* Phil. Nat. Princ. L. ii. S. 1. c. 4. p. 59.

9. *Utr.*

9. *Utr.* Omnis materia ſit homogenea? Negant *Carteſiani.* Vid. Quæſtionem ſextam.

Diſputatur de hac re in *Philoſ. Burgund.* Tom. II. Diſſert. ii. p. 701, &c.

Neg. Dr. *Green*, Principles of Philoſophy, p. 6. *Carteſii* Princ. Philoſ. P. iii. § 32. *Regnault*'s Philoſoph. Converſations, V. I. p. 35.

Aff. *Newtoni* Princ. Math. L. ii. Prop. 31. Schol. gen. p. 316. Ejuſdem Optic. p. 313. *Jac. Ode* Philoſ. Nat. Princ. L. i. S. 1. c. 2. p. 13. Dr. *Deſaguliers*'s Courſe of Exper. Philoſ. V. I. p. 3, 22. *Keil* Introd. ad Phyſ. Lect. viii. p. 79. *Huetii* Cenſura Philoſ. *Carteſ.* cap. 5. Dr. *Pemberton*'s View of Sir *Iſaac Newton*'s Philoſophy, Intr. p. 21.

Hanc excipit Quæſtionem altera haud diſſimilis;

10. *Utr.* Detur materia quædam ſubtilis & reſiſtentiæ expers?

Aff. *Carteſii* Princ. Philoſ. P. iii. § 33, 49. *Regnault*'s Philoſoph. Converſations, V. I. p. 27. *Hook*'s Poſth. Works, p. 172.

Neg. *Newtonus* in locis ſupra citat. Conf. *Cotesii* Præf. ad *Newton.* Princ. qui diſputationem

tionem totam fieri de rerum nominibus, non de naturis exiſtimat. Vix opus eſt ut plures conſulas.

11. *Utr.* Admittendus ſit NEWTONI Æther ſubtilis?

Aff. *Newtoni* Princ. Math. p. ult. Ejuſdem Optice, L. iii. in Quæſt. 17, ſeqq. *Pemberton*'s View, Introduct. p. 22, 406. *Chambers*'s Dictionary, ad vocem ÆTHER. Quiddam huic ſimile innuere videntur *Boyleus*, de Orig. Formarum. *Shaw*'s Abridgment, V. I. p. 284, & Vol. II. p. 504, 508. *Hook* in Op. Poſth. p. 29, 365. & alibi ſæpe. Lord *Bacon*'s Works, abridg'd by Dr. *Shaw*, V. II. p. 25, 37.

12. *Utr.* Gravitatio corporum ſit in ratione quantitatum materiæ?

Qui in decima quæſtione ſtant ex parte affirmativa, in hac ſunt negativi, & vice verſa. Conf. *Joann. Keil* Introd. ad Phyſ. Lect. x. *Graveſande*'s Phyſ. Elem. Math. L. i. c. 9. *Whiſtoni* Prælect. Phyſ. Math. Lect. xxviii, xxxiv. *Jac. Ode* Philoſ. Nat. L. ii. S. 1. c. 2. p. 40. *Newtoni* Princip. Math. L. iii. Prop. 4---8. *Clarkii* Notas ad *Rohault*. Phyſ. P. ii. c. 28. § 13. *Le Grand* Hiſtor. Nat. P. ii. Art. 4.

13. *Utr.* Eſſentia corporum ponatur in Extenſione ?

Affirmant omnes ad unum *Carteſiani.* Vid. *Carteſii* Princip. Phil. P. ii. § 4, 5. *Ant. Le Grand* Hiſtor. Nat. P. i. Art. 1. & Inſtitut. Philoſ. P. iv. c. 3. *Rohaulti* Phyſ. P. i. c. 7, 10. Philoſoph. *Burgund.* Tom. II. P. i. Diſſert. 2. c. 3. p. 708. *Gul. Muys* Elem. Phyſ. S. 1. p. 19.

Negant & in ſoliditate ponunt *Newtoniani.* Vid. *Newtoni* Princip. Math. L. ii. Prop. 31. p. 316. *Coteſii* Præfat. ad *Newtoni* Princip. *Muſſhenbroek* Epit. Elem. Phyſ. Math. P. i. c. 4. p. 21. *Huetii* cenſura Philoſoph. *Carteſianæ*, c. 5. *Deſaguliers* his Courſe of Experimental Philoſophy, Vol. I. Lect. i. p. 2. *Joan. Keil* Introd. ad Phyſ. Lect. ii. *Jac. Ode* Philoſ. Nat. Princ. p. 31.

Sunt, qui eam in vi quâdam activa conſiſtere volunt, ut *Leibnitzius*, ejuſque Sectatores. V. Acta Eruditor. *Leipſienſ.* A. D. 1694. p. 112. & 1695. p. 145. Papers betwixt *Leibnitz* and *Clarke*, p. 376. Dr. *Green*'s Philoſ.

Utr. Detur Vacuum ?

Aff. New-

Aff. Newtoni Princ. Math. L. iii. Prop. 2. Cor. 4. p. 402. & p. 356. Ejuſdem Optic. p. 310. *Jac. Ode* Princ. Nat. Philoſ. L. ii. S. 1. c. 2. p. 38. *Graveſande* Phyſ. Elem. Math. 4to, vel Inſtitut. Philoſoph. *Newton.* 12mo, L. iv. c. 12. *Buddei* Philoſ. Theoret. P. v. c. 1. *Baker*'s Reflections, c. 7. p. 80. *Muſſchenbroek* Elem. Phyſ. P. i. § 47. *Cheyne*'s Philoſ. Princ. P. i. p. 12. *Huetii* Cenſura Philoſ. *Carteſ.* c. 5. *Joan. Keil* Introd. ad Phyſ. Lect. ii. *Clerici* Phyſic. L. v. c. 2.

Varias Philoſophorum de Vacuo ſententias copioſe expoſitas vid. apud *Franc. Bayle* Inſtit. Philoſ. Tom. I. p. 75---83.

Neg. Carteſii Princip. Philoſ. P. ii. § 11, 16. *Rohaulti* Phyſ. P. i. c. 12. *Philoſ. Burgundia*, Tom. ii. Diſſert. 2. c. 2. p. 706, 853. *Regnault*'s Philoſoph. Converſations, V. I. p. 45. Dr. *Green*'s Princip. of Philoſ. B. i. c. 1. *Le Grand* Inſtit. Philoſ. P. iv. c. 3. § 8. & c. 13. & Hiſt. Nat. P. i. Art. 2.

15. *Utr.* Corpus, quà corpus, ſit diviſibile? Sive,

Utr. Materia ſit diviſibilis in infinitum?

Aff. Keillii Introd. ad Phyſ. Lect. iii, iv, v. *Graveſande* Elem. Math. Phyſic. L. i.

c. 4. & Scholium in Supplem. Phyſic. p. 1. *Muſſchenbroeck* Element. Phyſic. P. i. c. 5. *Rohaulti* Phyſic. P. i. c. 9. *Worſter*'s Principles of Philoſophy, p. 3. *Jac. Ode* Princip. Philoſ. Natur. L. ii. S. 1. p. 34. *Le Grand* Inſtit. Philoſ. P. iii. c. 4. *Carteſii* Princ. Philoſ. P. ii. § 34.

Neg. De Stair Phyſiol. Exper. Expl. ſecunda, p. 6.

Ambig. Bernier Abregé de la Philoſ. de *Gaſſendi*, Tom. II. L. i. c. 10. *Clerici* Phyſic. L. v. c. 4. quorum difficultates objectas acute ſolvit *Gul. Muys* Elem. Phyſic. p. 126.

16. *Utr.* Qualitates corporum ſenſibiles quiddam habeant externum ſenſuum ſimile ?

Aff. Quotquot ſtant ex parte *formarum ſubſtantialium.* Vid. ſupra Quæſt. quartam. Et ſunt inter *Ariſtotelis* Interpretes, qui Philoſophum in hac fuiſſe ſententia volunt : quod mihi vix aut ne vix quidem perſuadere poſſum, ut credam. Vid. *Ariſtot.* de Anima, L. ii. c. 5, 9.

Neg. Rohault. Phyſ. P. i. c. 2. § 8. *Locke* on Human Underſt. B. ii. c. 8. § 13. *Boyle*'s Origin of Forms ; or, *Shaw*'s Abridg. V. I. p. 202. *Carteſ.* Princ. P. iv. § 197, 198.

17. *Utr.*

17. *Utr.* Qualitates corporum ſenſibiles ex variâ particularum figurâ & diſpoſitione oriantur ?

Neg. Qui *formas ſubſtantiales* tuentur. V. Qu. 4, & 16.

Aff. Boyle in loc. ſupra citat. *Jac. Ode* Philoſ. Nat. Princ. L. ii. S. 1. c. 5. p. 60. *Clerici* Phyſ. L. v. c. 6. § 11. ſeqq.

18. *Utr.* Saporum diverſitas ex diverſa particularum figurâ oriatur ?

Aff. Clerici Phyſ. L. v. c. 12. *Clarkii* Not. ad *Rohault*. Phyſ. P. i. c. 24. § 38. *Derham*'s Phyſico-Theol. B. iv. c. 5. *Grew*'s Lectures before the Royal Society, Lect. vi. *Wedelii* Theoria Saporum, c. 1. Acta Erud. *Leipſienſ.* A.D. 1703. p. 237. *Sturmii* Phyſic. Elect. Tom. I. c. 6. p. 346. *Jac. Ode* Philoſ. Nat. Princ. L. ii. S. 2. c. 4. p. 298. *Willis* de An. Brut. c. 12. *Le Grand* Inſtit. Philoſ. P. viii. c. 13.

Neg. Ariſtoteles, & contendit ſaporem eſſe qualitatem quandam corporis humidi ex ſicco terreſtri & calore recocto ortam. V. *Ariſt.* de An. l. ii.

Sunt, qui omnes ſapores à ſalibus provenire arbitrantur. *Buddei* Philoſ. Theor. P. v. c. 4. § 13. *Jac. Ode* l. c.

De guſtûs organo & deſcriptione ejus, Vid: *Regis* Phyſ. L. viii. par. 2. c. 4. *Lewenhoeckii* Epiſtolas. *Malpighi* Opera, Tom. II. De Lingua, p. 18.

19. *Utr.* Odorum diverſitas ex diverſâ particularum figurâ oriatur?

Neg. Ariſtotelici quidam & odorem in re objectâ quiddam ſenſûs noſtri plane ſimilem eſſe volunt. Hos præclarè refellit *Lockius* de Intell. Hum. L. ii. c. 8. § 13.

Aff. Clarkius in Not. ad *Rohault*. P. i. c. 25. *Derham*'s Phyſico-Theol. B. iv. c. 4. *Willis* de An. Brut. c. 13. *Jac. Ode* Philoſ. Natur. L. ii. S. 2. c. 5. p. 307. *Varenii* Geogr. L. i. c. 19. *Boyle* on the Origin of Forms; or, *Shaw*'s Abridgment, p. 212. *Sturmii* Phyſ. Elect. Tom. I. p. 336. ſeqq. *Franc. Bayle* Inſtit. Phyſ. Tom. I. p. 428. *Clerici* Phyſ. L. v. c. 11. *Franciſci de Lanis* Mag. Art. & Nat. Tom. II. p. 69, 73, 75. *Buddei* Philoſ. Theor. P. v. c. 4. § 11. *Hamelii* Opera Philoſ. Tom. II. l. ii. c. 3. *Hartnacci* Admir. Phyſ. p. 549. *Le Grand* Hiſt. Natur. P. ii. Art. 68. *Niewentyt*'s Relig. Philoſ. Contempl. xv. § 10, 12. *Chambers*'s Dictionary, ad vocem SMELL.

De

De odoratûs organo & deſcriptione ejus, Vid. *Regis* Phyſ. L. viii. par. 2. c. 5.

20. *Utr.* Durities ſit partium quieti attribuenda?

Aff. Carteſ. Princ. Philoſ. P. ii. § 55. *Le Grand* Inſtit. Philoſ. P. iv. c. 21. § 2. *Malebranche* de inquirendâ Veritate, L. vi. c. 9. *Claubergii* Phyſ. contr. § 238. *Rohaulti* Phyſ. P. i. c. 22. § 9. *Franc. Bayle* Inſtitut. Phyſ. Tom. I. Diſp. viii. § 50, 51. *Philoſ. Burgund.* Tom. II. p. 891.

Neg. Et preſſioni ætheris attribuunt *Chr. Hugenius* Exper. Phyſ. 1, 2. quæ exſtant in operibus 4to, p. 770. *Jac. Bernoulli* de gravitate ætheris: Et preſſioni ætheris & quieti partium, Mr. *Boyle* of Fluidity and Firmneſs; or, *Shaw*'s Abridgment, V. I. p. 320, 321. Eodem modo *Gul. Muys* Elem. Phyſ. p. 220. qui fusè de hac re diſſerit.

Ambig. Regnault Philoſoph. Converſat. V. I. Conv. ix.

Attractionem ad hoc Phænomenon ſolvendum requirit *Newtonus*, & qui eum ſectantur: Unde oritur Quæſtio

21. *Utr.* Cohæſio partium corporis attribuenda ſit mutuæ earum attractioni?

Aff.

Aff. *Newtonus* in Opt. in Quæſt. ſub finem. *Joan. Keil* Epiſtola de legibus Attractionis, quæ exſtat in operibus, Ed. 4to. *Clarkii* Not. ad *Rohault*, P. i. c. 22. § 9. Dr. *Cheyne*'s Philoſ. Princ. p. 93. *Graveſande* Elem. Phyſ. 4to, L. i. c. 5. cum Scholio in Supplem. Phyſico. *Muſſchenbroek* in Exp. Phyſ. de Cohærentiâ corporum, 4to, & ejuſdem Elem. Phyſ. L. i. c. 22. *Jac. Ode* Philoſ. Natur. Princ. L. ii. S. 1. c. 6. p. 64.

Ambig. *Clerici* Phyſ. L. v. c. 14.

Neg. Et *Newtoni* Hypotheſin evertere aggreditur *Gul. Muys* Elem. Phyſ. p. 346.

Quæſtiones de fluiditatis & humiditatis cauſâ, Vid. infra, cap. 6.

22. *Utr.* Materiæ particulis competat vis attractrix, quæ decreſcit in majori quam duplicata ratione diſtantiæ augeſcentis ?

Aff. *Newton*, *Keil*, *Cheyne*, *Muſſchenbroek*, *Ode*, *Graveſande*, in locis ſupra citatis. Add. *Whiſtoni* Præl. Phyſ. Math. p. 203. *Deſaguliers*'s Courſe of Experimental Philoſophy, Vol. I. p. 10. Dr. *Friend*'s Præl. Chym. Præl. i.

23. *Utr.* Quibuſdam corporum particulis competat vis repellens ?

Aff.

Aff. *Deſaguliers*'s Courſe of Experimental Philoſophy, V. I. L. i. p. 17. *Muſſchenbroek* Element. Phyſ. § 576. ſeqq. p. 153. *Graveſande* Inſtit. Philoſ. P. i. n. 39. *Newtoni* Optic. L. ii. P. iii. Prop. 8. & L. iii. Qu. ult. Compendious Syſtem of Nat. Philoſ. P. i. c. 3. § 10. *Chambers*'s Dictionary, ad vocem REPULSION.

24. *Utr.* Gravitatio ſit eſſentialis materiæ proprietas?

Aff. Philoſophical Enquiry into the Nature of Gravity. *Coteſii* Præf. ad *Newton.* Princ.

Neg. *Newtoniani*, at univerſalem eſſe docent. Vid. *Newtoni* Optic. Qu. 17. ſeqq. Edit. Angl. Dr. *Pemberton*'s View of Sir *Iſaac Newton*'s Philoſ. Introd. p. 22. & Lib. II. c. 5. p. 259. Dr. *Cheyne*'s Philoſ. Princ. p. 40. *Le Grand* Inſtit. Philoſ. P. iv. c. 11. *Muſſchenbroek* El. Phyſ. § 195, 538. *Chambers*'s Dictionary, ad vocem GRAVITY.

25. *Utr.* Gravitationis cauſa ſolvi poſſit ex principiis mechanicis?

Aff. *Carteſiani*, & impulſui cuidam externo tribuunt. *Carteſii* Princ. Phil. P. iv. § 20, &c. *Hook*'s Microgr. p. 22. & Poſt. Works,

Works, p. 180, 184, 201. Acta Erudit. *Leipſ.* A. D. 1690. *Rohault.* Phyſ. P. i. c. 2. § 15. & P. ii. c. 28. § 13. *Anton. Le Grand* Inſtit. Philoſ. P. iv. c. 11. *Iſaac Voſſius* de Gravitate. *Borellus* de Vi Percuſſ. c. 3. Hyp. 2. Nº 3. *Stairius* in Phyſiol. Exper. Expl. iii. S. 9. *Regnault*'s Phil. Converſ. V. I. Conv. xvii. p. 233. *Clerici* Phyſ. L. v. c. 15. *Huygens* de la Peſanteur, p. 169. *Bernoulli* de Gravitat. Ætheris.

Neg. Newtoni Princ. Math. L. iii. Prop. 6, 7. p. 400. & p. ult. Ejuſdem Optic. p. 314, 322, 345. *Pemberton*'s View of Sir *Iſaac Newton*'s Philoſ. p. 407. *Clarkii* Not. ad *Rohault.* P. ii. c. 28. § 13. *Graveſande* Philoſ. *Newton.* L. i. c. 5. *Muſſchenbroek* Elem. Phyſ. § 172, 573. *Keil* Præf. ad Phyſ. Dr. *Shaw*'s Abridgment of Mr. *Boyle*'s Works, V. I. p. 17. Dr. *Cheyne*'s Philoſ. Prin. P. i. c. 2. *Buddei* Philoſoph. Theoret. P. v. c. 4. § 18. Miſcell. Curioſa, V. I. p. 302. *Derham*'s Phyſ. Theol. B. i c. 5. Note *a.* *Chambers*'s Dictionary, ad vocem GRAVITY.

Quæſtio ex utraque parte diſcutitur in *Philoſ. Burgund.* Tom. II. p. 813.

Quæritur a *Newtono*, utrum Gravitas non ſit attribuenda actioni cujuſdam ætheris ſubtilis.

tilis. V. Princ. Math. p. ult. Optic. in Quæſtionibus ſub finem. Dr. *Pemberton*'s View of Sir *Iſ. Newton*'s Philoſophy, Intr. p. 13. Idem opinari videtur *Boyleus*. Vid. his Works abridg'd by *Shaw*, V. I. p. 19. Vid. ſupra Qu. 11.

26. *Utr.* Detur abſolutæ Levitatis Principium in rerum natura?

Neg. Muſſchenbroek Epit. Phyſic. p. 48. *Le Grand* Inſtit. Phil. P. iv. c. 11. *Varenii* Geograph. Gen. L. i. c. 19. Prop. 6. cum *Jurini* Append. p. 17. Dr. *Derham*'s Phyſ. Theol. B. i. c. 5. note *f*. *Borelli* de Motu à Grav. pend. c. 4. Experiments of the Academy *Del Cimento*, p. 11. *Wallis* on Gravity, in Philoſ. Tranſact. A. D. 1674. p. 28. Dr. *Shaw*'s Abridgment of *Boyle*'s Works, V. II. p. 362, 365. *Chambers*'s Diction. ad vocem LEVITY. *Clarkii* Not. ad *Rohault*. Phyſ. P. i. c. 10. § 11. Cor. 3.

Aff. Ariſtoteles cum ſuis Peripateticis. Phyſica vetus & nova, Qu. ix. Art. 10. p. 223.

27. *Utr.* Gravitas corporum ſit (diſtantiis datis) in ratione quantitatum materiæ?

Affirmant, qui in Quæſtione præc. negant; & viciſſim hic negant, qui illic affirmant.

28. *Utr.* Elementa in propriis locis gravitent?

Negant, qui varia Elementa tuentur. V. Qu. 6. Conf. *Euſtach.* Phyſ. p. 211. *Carteſ.* Princip. Phil. P. iv. § 27. V. infra Cap. vi.

29. *Utr.* Omnia corpora poris abundent?

Aff. *Le Grand* Inſtit. Philoſ. P. iv. c. 23. *Regnault*'s Philoſ. Converſ. Vol. I. p. 35. *Boyle* on the Poroſity of Bodies; or, *Shaw*'s Abridgment, Vol. I. p. 439. *Newtoni* Optic. P. iii. Prop. 8. p. 228. Memoires de l'Academie, A. D. 1713. p. 709. *Pemberton*'s View of Sir *Iſaac Newton*'s Philoſoph. B. iii. c. 2. p. 355.

Ambigi poteſt, utrum Philoſophi, qui particulis primogeneis ſolidis patrocinentur, partem negativam hujuſce Quæſtionis non tueantur. V. ſupra Qu. 8.

30. *Utr.* Detur ignis elementaris? Sive, *Utr.* Ignis ſit quiddam *ſui generis* in corporibus contentum?

Aff.

Aff. Id prolixe & operâ parum utili probare aggreditur Dr. *Boerhaave* in Elem. Chemiæ, 4to, Vol. I. â pag. 126, ad pag. 422. In eâdem ſententiâ ſtant plerique e Philoſophis tranſmarinis: *Carteſ.* Princ. P. iv. § 8. *Sturmii* Phyſiol. Elect. Tom. II. p. 97. *Stairii* Phyſiol. Nov. Expl. vi. S. 3. *Franciſc. Bayle* Inſtit. Phyſ. Tom. I. P. i. L. 1. S. 1. Diſp. 3. Art. 3. *Buddeus* in Phil. Theoret. P. iii. c. 2. § 4. *Homberg* in Eſſai du ſouffre Principe in Memoires de l'Academie, Ann. 1705. M. *Lemery* in Memoires de l'Acad. Ann. 1713. Ib. 1709. *Regnault's* Philoſoph. Converſat. V. I. p. 360. *Niewentyt's* Relig. Philoſoph. Vol. I. Contempl. xxi. S. 6. *Muſſchenbroek* Elem. Phyſ. Mech. P. ii. c. 12. p. 226. *Graveſande* Elem. Phyſ. 4to, P. iii. c. 1. *Jac. Ode* Philoſ. Nat. Princ. L. ii. S. 2. c. 1. p. 201. & P. ii. Sect. 1. c. 3. p. 82. *Fr. de Lanis* Mag. Nat. & Art. Tom. II. p. 13. *Euſtach.* Phyſ. p. 225. *Robaulti* Phyſ. P. i. c. 27. § 15. & P. iii. c. 9. § 2. *Gaſſend.* Philoſ. *Epicuri*, p. 169.

Neg. Et in interno particularum motu ponunt omnes ad unum Philoſophi noſtrates. *Bacon* de forma calidi. *Boyle's* Mechanical Product. of Heat and Cold; or, *Shaw's* Abridgment, V. I. p. 550. The

ſceptical Chymiſt; or, *Shaw*'s Abridgment, V. III. p. 305. *Newt.* Opt. p. 318, 349. *Clarkii* Not. ad *Rohault.* P. i c. 2. § 15. Dr. *Shaw*'s Notes to *Boerhaave*'s Chemiſtry, p. 220. *Engl.* Ed. 4to. Si utriuſque partis Hypotheſes breviter explicatas videre lubet, adeas *Chambers*'s Dictionary, ad vocem FIRE.

31. *Utr.* Corpora calefacta amplificari debeant?

Aff. Et variis experimentis probat *Boerhaave* in Elem. Chem. 4to, V. I. p. 128. *Graveſande* Elem. Math. L. iii. c. 4. *Jac. Ode* Philoſ. Nat. Princ. V. I. p. 207. Hiſt. Acad. Reg. L. iii. S. 6. c. 1. § 4.

32. *Utr.* Quies ſit quiddam poſitivum?

Aff. *Carteſ.* Princ. Philoſ. P. ii. § 27.

Neg. *Clerici* Phyſ. L. v. c. 5. *Malebranche*'s Search after Truth, L. iv. c. 9. *Jac. Ode* Philoſ. Natur. L. ii. S. 1. c. 6. p. 114. *De Stair* Phyſ. Exp. p. 75. *Clauberg.* Diſp. Phyſ. 32. *Fr. Bayle* Phyſ. Inſtitut. Tom. I. p. 96.

33. *Utr.* Detur abſoluta quies in rerum naturâ?

Neg.

Neg. *Muſſchenbroek* Elem. Phyſ. P. i. c. 7. § 111. Acta Erudit. *Leipſienſ.* A. D. 1695. p. 146. *Boerhaave* Elem. Chem. V. I. p. 398. *Boyle*'s Works abridg'd by *Shaw*, V. I. p. 21.

34. *Utr.* Sympathia & Antipathia admittendæ ſint in Rebus Phyſicis?

Aff. Sir *Kenelm Digby* de Natura Corporum, P. i. c. 8. p. 407.

Ambig. *Buddeus* in Philoſ. Theor. P. v. c. 5. *Boyle*'s Works abridg'd by *Shaw*, V. I. p. 85, 176.

Neg. Omnes *Newtoniani.*

Conf. *Chambers*'s Dictionary, & Dictionarium Polygraph. ad voc. SYMPATHETIC INK.

CAPUT II.

QUÆSTIONES AD NATURALEM HISTORIAM SPECTANTES.

I. *De* MUNDO *in genere.*

1. UTRUM revera exiſtat Mundus materialis?

Neg. Dr. *Berkley*'s Treatiſe on the Principles of Human Knowledge, p. 59. His Dialogue between *Hylas* and *Philonous.* Minute Philoſopher, V. I. Dial. vi. § 9. New Theory of Viſion, § 43. *Collier*'s Clavis Univerſalis.

Aff. *Locke*'s Eſſay, B. iv. c. 2. § 14. c. 4, 11. His ſecond Reply to Biſhop *Stillingfleet*. *Regnault*'s Philoſ. Converſ. V. I. p. 18. Dr. *Green*'s Princ. of Philoſophy, 8vo, B. i. c. 1. *Franc. Bayle* Inſtit. Phil. Tom. I. P. i. p. 8. *Le Grand* Inſtit. Philoſ. P. iv. c. 2. *Norris*'s Ideal World, P. i. c. 4.

Nihil dari extenſum probare aggreditur M. *Bayle* Diction. Hiſtor. & Crit. Artic. ZENO. Rem. F, G, J.

2. *Utr.*

2. *Utr.* Mundus fuerit ab æterno?

I. Sunt, qui æternitatem tribuunt ſolummodo Materiæ, ex qua mundus conflatur. Hujus opinionis inventor exiſtimatus eſt *Anaxagoras.* Vid. *Diog. Laert.* L. ii. n. 6. *Plutarch.* de Plac. Philoſ. L. i. c. 3. Totum *Anaxagoræ* Syſtema expoſuit *P. Bayle* Diction. Hiſt. & Crit. ad vocem ANAXAGORAS; & refellit *Cudworthus* in Syſtem. Intell. V. & apud eundem, *Moſhemii* Diſſert. de ſenſu iſtius axiomatis, *Ex nihilo nihil fit.*

Neg. Henr. Mori Opera Philoſ. P. i. c. 10. *Hales* Prim. Orig. of Mankind, c. 3. Univerſal Hiſtory, V. I. p. 9. Dr. *Sam. Clarke*'s Dem. of the Being and Attributes, Prop. iii. p. 23, 26. *Burnetti* Archæolog. L. ii. c. 1. *Stillingfleet*'s Orig. Sacr. B. iii. c. 2. § 3, 10. *Law*'s Notes to *King* on the Orig. of Evil, N. 12. Ed. 4to.

II. Alii volunt & materiam & formam mundi ab æterno exſtitiſſe. *Ariſtotel.* de Cœlo, L. i. c. 10. Phyſ. L. viii. c. 1---7. *Spinoſa* Opera Poſth. P. i. Prop. 3. & P. ii. Prop. 2. *Blount*'s Orac. of Reaſon, p. 216.

Neg. Bentley & *Gaſtrel* in *Boyle*'s Lectures. *Stillingfleet*'s Orig. Sacr. B. iii. c. 2. § 11. Univerſal Hiſtory, V. I. p. 3. *Jac.*

Ode

Ode Philoſ. Natur. L. i. S. 1. c. 1. *Parker* de Deo, Diſputatio iv. *Wilkins*'s Nat. Rel. B. i. c. 5. *Tillotſon*'s Sermons, V. I. S. 1. *Cheyne*'s Philoſ. Princ. c. 4. Dr. *S. Clarke*'s Dem. of the Being and Attributes, l. c. p. 25. *Le Grand* Inſtit. Philoſ. P. v. c. 2. Et (qui inſtar omnium eſt) *Hale* in Prim. Orig. of Mankind, *per tot.* Qui plures vult conſulere auctores, adeat *Fabricium* de Verit. Rel. Chriſtianæ, p. 355.

3. *Utr.* Coſmogonia ſolvi poſſit ex mechanica rerum diſpoſitione?

E variis, quas excogitarunt Philoſophi, Hypotheſibus præcipua obtinuerunt loca, quæ ſequuntur.

I. *Epicurei* omnia ad concurſum atomorum fortuitum referebant. Vid. *Cic.* de Finibus, L. i. *Lucret.* L. ii. *Diog. Laertius* in Vita *Epicuri*; or, *Stanley*'s Lives of the Philoſophers, P. xiii. p. 572. *Plut.* de Plac. Phil. L. i. c. 4.

Neg. Cudworth's Intell. Syſt. c. 1. *Stillingfleet*'s Orig. Sacr. L. iii. c. 2. § 14. Univerſal Hiſtory, Intr. V. I. p. 20. *Ray* on the Creation, P. i. p. 34.

II. *Carteſius* omnia ex mechanica rerum diſpoſitione derivat. *Carteſ.* Medit. Metaph. & Princip. Philoſ. P. iii. *paſſim.* *Rohaulti* Phyſ.

Phyſ. P. vii. c. 21. *Stillingfleet*'s Orig. Sacræ, B. iii. c. 2. § 18. Hypotheſin hanc clare & breviter expoſitam videre erit in *Univ. Hiſtory*, Introd. V. I. p. 35.

Neg. Ray on the Creation, P. i. p. 41. *Cudworth*'s Intell. Syſtem, p. 603. *Boyle* on final Cauſes, Sect. 1. His Enquiry into the vulgar Notion of Nature, p. 77, 124. Reflections on Learning, by Mr. *B.* c. 7.

III. Proximum conſecuta eſt locum & exiſtimationem BURNETTI Hypotheſis non ſine multo ingenio conficta, in Theor. Telluris, L. i. c. 5. Archæol. L. ii. c. 3.

Eam refellunt, *Keil*'s Exam. of *Burnet*'s Theory, P. i. c. 2. Univerſal Hiſt. V. I. p. 36. *Warren*'s Exceptions to *Burnet*'s Theory.

IV. Denique WHISTONI Hypotheſis famam cæteris haud minorem meruit & obtinuit. V. his New Theory of the Earth.

Hanc breviter expoſitam V. in Univerſal Hiſt. p. 38. & plane refutatam a *Keilio* in Remarks on Mr. *Whiſton*'s Theory, p. 140. and Defence of thoſe Remarks, p. 311. ſecond Edition.

Moſaicam Creationis Hiſtoriam explicatam vid. in *Nichols*'s Conference with a Theiſt, V. I. P. i. Univerſal Hiſtory, Introd. p. 41.

4. *Utr.* Ordo mundi probet Deum?

Aff. Dr. *Bentley*'s *Boyle*'s Lectures, Serm. vi, vii, viii. *King* de Orig. Mali, Engliſh'd, with Notes, by Mr. *Law*, c. 4. *Parkeri* de Deo, Diſp. ii, v. *Le Grand* Inſtitut. Phyſ. P. v. c. 1. *Stillingfleet*'s Orig. Sacræ, B. iii. c. 1. § 16.

Hanc materiam ex profeſſo & ſummo cum ingenio tractarunt *Ray* on the Creation, and Phyſico-Theolog. Diſcourſes; Dr. *Derham*'s Phyſico-Theology, and Aſtro-Theol. *Niewentyt*'s Religious Philoſopher, 3 vol. Dr. *H. More*'s Antidote againſt Atheiſm.

II. *De* ANIMALIBUS.

5. *Utr.* Detur æquivoca generatio?

Affirmârunt veteres *Ægyptii* & *Ariſtotelici*, ut literis proditum eſt in *Diodor. Plin. Ovid. Ælian. Mela. Cicer.* aliiſque, quos legere & refutatos videre juvabit apud *Stillingfleet* Orig. Sacr. P. ii. B. 1. c. 1. Et huic opinioni adſtipulari videtur Dr. *Plot* Hiſt. of *Staffordſhire*, c. 1. §. 47. Conf. *Lowthorp*'s Abridgment of the Phil. Tranſ. V. II. p. 143, 144.

Negant

Negant omnes qui inter Philoſophos melioris notæ cenſendi ſunt. *Hale*'s Originat. of Mankind, Sect. iii. c. 3, 7. *Etmulleri* Inſtitut. Med. c. 23. *Liſter* de Inſect. p. 47. *Ray* on the Creation, P. ii. p. 344. *Stillingfleet* l. c. *Buddeus* de Philoſ. Theor. P. i. c. 1. § 17. *Franc. Rhedi* Exper. Natur. *Wollaſton*'s Religion of Nature, Sect. v. Prop. 15. p. 88. Dr. *Bentley*'s *Boyle*'s Lectures, Serm. iv. *Boerhaave*'s Elem. Chem. 4to, V. I. p. 489. Philoſoph. Letters publiſhed by *Derham*, p. 261, 285. His Phyſico-Theol. B. iv. c. 15. Note *a*. *Harvei* Exercitat. 49, 50. *Watts*'s Philoſ. Eſſays, p. 195. *Harris*'s Lexic. Tech. V. II. ad vocem GENERATION.

6. *Utr.* Omnia Animalia producantur ex ovo?

Hæc quæſtio priori opponitur, adeoque qui illic affirmant, hic negant. Itaque adeas auctores ſupra citatos.

Aff. Item *Boerhaave* Inſtit. Med. § 673. *Morgagni* Adv. 1. Tit. 3. *Harveus* de Generat. *Lewenhoeck* in Epiſt.

Ambig. *Drake* in Anat. qui diverſas auctorum ſententias ad examen revocat.

7. *Utr.* Producantur Animalia juxta leges mechanicas?

Aff. Watts Philoſph. Eſſays, ix. p. 201. *Willis* de Anim. Brut.

Neg. Univerſal Hiſtory, V. I. Introd. p. 43. Principium quoddam *Hylarchicum* (quod in Enchiridio Metaphyſico vocat *Spiritum Naturæ*) ulterius requirit *Hen. Morus* in Op. Philoſ. Fol. V. I. p. 26, 39, 219, 611. Et vim *Plaſticam* (quæ prorſus idem ſonat) *Ray* on the Creation, P. i. p. 45. ſeqq. *Cudworth* Intellect. Syſtem, p. 603. *Morhofii* Polyhiſt. Tom. II. L. ii. c. 19. p. 285. *Andr. Rudigeri* Phyſica Divina, 4to.

Cum hac Quæſtione cognationem habet altera:

8. *Utr.* Accreſcant Animalia juxta leges mechanicas?

Aff. Plerique recentiores. Conſulantur libri ſupra citati; quibus addas *Arbuthnot* on Aliments. *Albin.* de Oſſibus. *Boerhaave* Inſtit. Med. § 434, 480.

9. *Utr.* Mutua corporis & animæ actio ſolvi poſſit?

Ad tria ſyſtemata revocari poſſunt virorum doctorum de hac re ſententiæ.

Primum vocatur ſyſtema *Influxûs*, quod amplexi ſunt *Carteſiani*. Vid. *Carteſ.* de Homine.

Secun-

Secundum eſt ſyſtema *Adſiſtentiæ* ſeu *Cauſarum occaſionalium* (ut loquuntur) in quo Deus immediate omnem motum efficere ſupponitur. V. *Buddei* Iſagoge, Tom. I. p. 239, 274.

Tertium denique eſt ſyſtema *Harmoniæ præſtabilitæ*, cujus inventor & auctor fuit *Leibnitzius*. Vid. Eſſais de Theodic. & Papers betwixt *Leibnitz* and *Clarke*. Eandem propugnavit ſententiam *Chriſt. Wolfius* in Luculenta Commentat. de ſyſtemate harmoniæ præſtabilitæ, Sect. ii. § 18. p. 57. ſeqq. Itemque *G. B. Bulſingerus* in Commentat. de harmonia animi. Huic oppoſuit *Langius* in Cauſa Dei & Relig. Nat. Sect. i. Argum. 1. §. 3. p. 102. Itemque in Modeſta Diſquiſ. c. 2. p. 67.

At omnibus rectius philoſophantur, qui animam agere in corpus, & viciſſim corpus in animam, & nihil de *modo* actionis ſtatuunt, ſed ignorantiam fatentur.

10. *Utr.* Admittenda ſit præexiſtentia animæ humanæ?

Aff. Veteres *Pythagorici* & *Platonici*; quos acriter in hac re defendit *Henricus Morus* (vir doctus, ſed ſententiis *Platonicis* nimium addictus) Oper. Philoſ. Tom. II. p. 365, ſeqq. Et in *Poemat.* Philoſoph. quæ vul-

gavit

gavit *Anglice Cantabr.* 1647, 8vo. Eadem propugnatur Hypotheſis à *Ruſt.* Lux Orientalis. A Letter concerning *Origen* and his Opinions, printed in the *Phænix.* *Sandius* de Orig. Animæ.

Neg. Dr. *Barrow*, qui Moro jam laudato reſponſum dedit. *Hale*'s Primitive Origin. of Mankind. *Parker* on the Præexiſtence of Souls. *Edward Warren*'s No Præexiſtence.

11. *Utr.* Anima ſit ex traduce?

Aff. *Tertullian*, & alii quidam e veteribus. Et e recentioribus, *Watts* Philoſ. Eſſays, ix. p. 201. *Thomaſii* Diſſertatio de Orig. Animæ Hum. *Planerus* de Animæ Hum. propagatione.

Neg. *Carteſiani*, & inter eos præcipue (qui in *Carteſii* verba nunquam non juraverit) *Ruardus Andala* Diſſert. iv. animum à Deo, quoties generatur corpus, creari diſputat. G. *Roetembeccii* Diſſert. de Orig. Mentis Humanæ. *Wollaſton*'s Religion of Nature, Sect. v. p. 88.

Animas humanas ex *Anima Mundi* decerptas eſſe vetus eſt opinio, quam non ita pridem reſuſcitavit *Carolus Blount* in Libro cui titulus, *Anima Mundi.* Eam refellit *Cocceius* in Op. Tom. vi. Ep. 223.

12. *Utr.*

12. *Utr.* Bruta cogitent?

Aff. Mr. *Locke* on Hum. Underſt. B. ii. c. 11. *Buddei* Philoſ. Theor. P. ii. c. 1. § 8, 9. *Clarke*'s Letters to *Dodwell*, paſſim; & quotquot materiæ capacitatem cogitandi detrahunt, V. infra Qu. *Utr. Materia poſſit cogitare?* *Neg.*

Neg. *Malebranche* de Veritate inquirend. L. vi. *Willis* de Anim. Brut. *Jac. Ode* Philoſ. Nat. Princ. V. II. p. 44. *Norris*'s Ideal World, P. ii. c. 2. *Le Grand* Inſtit. Phil. P. vii. c. 18. *Carteſii* Epiſt. P. i. Epp. 54, 67, 68, 69. Et P. ii. Ep. 10. *Philoſ. Burgund.* T. ii. p. 1194. Bp. *Brown* of the Extent and Limits of hum. Underſtanding, B. ii. c. 2. p. 158.

Nec prætereunda eſt veterum Philoſophorum Diſcrepantia de Brutorum animis. Ea animâ cogitativâ prædita eſſe dogma receptum fuit ANAXAGORÆ & PYTHAGORÆ. *Plutarch* de Plac. Philoſ. L. v. c. 20. Contrarium prorſus docuit *Cicero* in Tuſc. Qu. L. i. c. 33. De Offic. L. i. c. 4. & *Seneca* de Irâ, L. i. c. 3.

13. *Utr.* Motus muſcularis ſolvi poſſit mechanicè?

Varias Hypotheſes ad actionem Muſculorum ſolvendam invenêrunt ingenia hominum,

num, qui de re Anatomicâ ſcripſerunt.

I. Nonnulli elaſticarum fibrarum, *i. e.* nervorum contractioni attribuunt. *Morgan*'s Philoſ. Princip. of Medicine, P. ii. Prop. 4. p. 120. *Cowper*'s Myotomy, cum Præfatione quam præmiſit Dr. *Pemberton. Lower* de Corde. *Baglivi* de Fibra. *Wepfer* de Cicut. Aq. c. viii. p. 87. *Sennert.* Inſtit. Med. L. i. c. 15.

II. Alii intumeſcentiæ muſculorum ope fermentationis ſanguinis & ſpirituum animalium ſive liquidi nervoſi adſcribendam eſſe volunt. *Keil*'s Anatomy, c. ii. S. 1. p. 27. *Willis* de Anim. Brutorum. *Bernoulli* de Motu Muſcul.

III. Nec contemnendæ ſunt eorum Hypotheſes, qui ſoli liquido nervoſo tribuunt. *Boerhaave* Inſtit. Med. § 300---320. *Borelli* de Motu Animal. P. i. Dr. *Al. Stuart*: Phil. Tranſ. An. 1731.

Ambig. Dr. *Hales* Statics, V. ii. p. 58. Dr. *Cheyne*'s Princ. of Phil. c. 6. p. 308.

Qui plura vult, adeat *Chambers*'s Dict. or *Harris*'s Lexic. ad vocem MUSCLE.

14. *Utr.* Detur liquidum nervoſum?

Neg. Dr. *Cheyne* in *Engliſh* Malady, c. 1. qui in libro prius edito affirmaverit. Philoſoph. Princ. of Relig. c. vi. § 35. p. 300.

300. & § 37. p. 308. *Wepfer* de Cicut. Ap. c. viii. *Morgan*'s Philoſ. Princ. P. ii. p. 136. *Thomſon*'s Anat. S. 9.

Aff. *Boerhaave*, *Keil*, *Willis*, *Borelli*, *Malebranche*, aliique loc. citat.

15. *Utr.* Æthiopum Nigredo ſolvatur ex cauſis naturalibus?

Aff. Univerſal Hiſtory, Introd. V. I. p. 47. *Nicholls*'s Conf. with a Theiſt. V. I. P. i. Qui plura vult, adeat *Malpighi* Op. alioſque Scriptores anatomicos de cute.

16. *Utr.* Effectus TARANTULÆ morſûs ſolvi poſſint mechanicè?

Aff. *Mead* upon Poiſons, p. 59. Compendious Syſtem of Natural Philoſ. P. ii. Diſſert. 1. p. 55. *Niewentyt*'s Religious Philoſopher, V. I. p. 29. *Chambers*'s Dictionary ad voc. TARANTULA.

III. *De* VEGETABILIBUS.

17. *Utr.* Plantæ naſcantur ſponte & ſine ſemine?

Neg. *Clerici* Phyſ. P. iv. c. 2. § 33. ſeqq. *Malpighi* Anatomia Plantarum. *Hamelius* in Hiſt. Acad. Reg. p. 309. *Tournefort* ibid. Ejuſdem Inſtit. rei Herbariæ. Iſagog.

p. 68. *Jac. Ode* Philoſ. Nat. Tom. II. c. 2. p. 50. *Ray* on the Creation, P. i. p. 125. Dr. *More*'s Antidote againſt Atheiſm. B. ii. c. 6. *Derham*'s Phyſ. Theol. B. x. p. 404.

18. *Utr.* Integræ Plantæ contineantur in ſemine?

Aff. *Niewentyt*'s Relig. Philoſopher, V. ii. Contempl. 23. p. 695. *Regnault*'s Philoſoph. Converſat. V. iii. Conv. 1. p. 5. Memoires de l'Acad. *Pariſ.* 1701. p. 315. & 1707. p. 47. *Buddeus* de Philoſ. Theor. P. ii. c. 2. § 20. *Grew*'s Anatomy of Plants. Dr. *Bentley*'s *Boyle*'s Lectur. Serm. iv. p. 160. *Bradley* on Gardening. Quibus addantur auctores ſupra citati.

19. *Utr.* Detur analogia inter generationem nutrimentumque Plantarum & Animalium?

Aff. *Malpighi*, *Grew*, *Buddeus*, aliique jam laudati. Analogiam hanc breviter expoſitam dedit *Chambers* Dictionary ad vocem PLANT. Add. *Derham*'s Phyſico-Theol. B. x. p. 404. *Shaw*'s Notes to *Boerhaave*'s Chemiſtry, p. 142, 149. Dr. *Hale*'s Veget. Staticks, c. 7. p. 318. *Clerici* Phyſ. L. iii. c. 1, 2.

20. *Utr.*

20. *Utr.* Plantæ ſint Mares & Fœminæ?
Aff. Plerique in re Botanica verſati. V. *Bradley*, *Grew*, *Malpighi*, *Ray*, &c. loc. cit.

21. *Utr.* Vegetabilium generatio & incrementum ex cauſis mechanicis ſolvi poſſint?

V. ſupra, Qu. 7.

22. *Utr.* Detur circulatio ſucci in vegetabilibus?

Aff. *Boerhaave*'s Chemiſtry by *Shaw*, p. 144. *Bradley* Philoſ. Tranſ. N° 349. M. *Perrault* Memoires de l'Acad. 1667. *Malpighi* Mem. de l'Acad. 1669. *Regnault*'s Philoſ. Converſ. V. iii. p. 19. Dr. *Grew*'s Anat. of Plants. Dr. *Liſter*, Philoſ. Tranſ. N° 70.

Neg. Dr. *Hale*'s Staticks, V. I. p. 134. V. II. p. 264, &c. Dr. *Tong*, M. *Dodart* & *Switzer*. Vid. *Chambers* Diction. ad voc. CIRCULATION.

23. *Utr.* Vegetabilibus competat reſpiratio?

Aff. *Derham*'s Phyſ. Theol. B. x. p. 406.

24. *Utr.* Aqua pura ſit nutrimentum vegetabilium?

Neg. Et aquam, quâ nutriuntur plantæ, terrenis particulis imbutam eſſe contendunt, *Woodward* on Vegetation in Miſcell. Curioſ. V. I. p. 203. *Boyle*'s Sceptical Chymiſt, P. ii. *Jac. Ode* Philoſ. Nat. Princ. Tom. II. c. 2. p. 51. *Baconi* Sylva Sylvarum, Cent. v. § 411. *Niewentyt*'s Relig. Philoſ. V. II. p. 467. *Helmonti* Opera, p. 65. Ea verò *experimenta crucis* videntur in hac quæſtione, quæ probant non dari aquam puram & elementarem. Vid. infra Cap. vi. Qu.

IV. *De* REBUS TERRESTRIBUS.

25. *Utr.* Foſſilia in Strata diſtribuantur ſecundum ſpecificas ſuas gravitates diſpoſita?

Aff. *Derham*'s Phyſico-Theol. B. iii. c. 2. Philoſoph. Tranſ. N° 336. *Woodward*'s Nat. Hiſtory of the Earth, p. 28. *Steno*'s Prodromus, p. 74.

Neg. Dr. *Leigh*'s Nat. Hiſt. of *Staffordſhire.* Dr. *Liſter*'s Letter to Mr. *Ray.*

26. *Utr.* Conchæ in ſubterraneis partibus inventæ Diluvium univerſale probent?

Aff. Hanc Hypotheſin WOODWARDO acceptam referamus, oportet. Natural Hiſtory of the Earth, P. ii. or Philoſoph. Tranſ.

Tranſ. N° 217. p. 115. Cui ſuffragantur *Ray*, Phyſico-Theolog. Diſcourſes, P. iii. *Derham*'s Philoſoph. Letters, p. 165. 196, 235, 288. *Hook*'s Poſt. Works, p. 279. Dr. *Delany*'s Revel. examin'd with Candour, V. I. Diſſert. xi. Journal de Sçavans, A.D. 1715. p. 19.

Neg. Camerarius, qui *Woodwardianam* Theoriam ad examen revocavit. Vid. *Chambers*'s Diction. ad vocem FOSSIL.

27. *Utr.* Foſſilia ad imaginem animalium & vegetabilium formata ſint Luſus Naturæ?

Neg. Woodward, *Derham*, *Hook* loc. cit. Add. *Shaw*'s Abridgment of Mr. *Boyle*'s Works, V. II. p. 167. V. III. p. 528.

Aff. Dr. *Liſter*. Vid. Mr. *Ray*'s Three Diſcourſes, 8vo, *Lond.* 1695. p. 127.

28. *Utr.* Mineralia, Metalla & Lapides accreſcant?

Aff. Derham's Phyſico-Theol. B. iii. c. 2. p. 63. *Boyle*'s Sceptical Chymiſt, p. 360. or *Shaw*'s Abridgment, V. I. p. 342. & V. III. p. 130---134. *Clerici* Phyſ. L. ii. c. 4, 5. *Tournefort* de Metallis.

Neg.

Neg. *Woodward*'s Nat. Hiſtory of the Earth, P. iv. *Shaw*'s Notes to *Boerhaave*'s Chemiſtry, p. 60.

29. *Utr.* Diluvium ſolvi poſſit mechanicè?

Aff. Notiſſimæ ſunt WHISTONI, & BURNETTI Theoriæ, quas vide. Eaſdem breviter & dilucide expoſitas legere juvabit in Univerſal Hiſt. V. I. p. 36. Vel in *Chambers*'s Dictionary, ad vocem DELUGE.

Neg. *Keil*'s Examination of the Theoriſts, Ed. 2d. *Warren*'s Exceptions to *Burnet*'s Theory. Reflections on Learning by Mr. *B.* p. 83. *Stillingfleet*'s Orig. Sacræ, B. iii. c. 4. § 3. *Witty* on the Six Days Creation. *Beaumont*'s Conſiderations on *Burnet*'s Theory.

30. *Utr.* Ignes ſubterranei & Terræ Motus oriantur ex fermentatione vaporum ſulphure & nitro imbutorum?

Aff. *Newtoni* Optice in Quæſt. ſub finem, p. 326. Dr. *Liſter* in Philoſoph. Tranſact. N° 157. *Lowthorp*'s Abridgment of Philoſoph. Tranſ. V. II. p. 120. *Shaw*'s Abridgment of *Boyle*'s Works, V. I. p. 641. *Hook*'s Poſt. Works, p. 279.

Philoſ.

Philoſ. Converſat. V. II. p. 67. *Clerici* Phyſica, L. ii. c. 3.

Neg. Et igni cuidam ſubterraneo attribuit *Woodwardus.* Natural Hiſtory of the Earth, P. iii. p. 151. ſeqq.

Variæ fuerunt veterum Philoſophorum Hypotheſes de Terræ motibus, quas vix opus eſt recenſere. Cui cognoſcere eas lubet, adeat *Plutarch.* de Plac. Philoſ. L. iii. c. 15. *Plin.* Nat. Hiſt. L. ii. c. 79. *Senec.* Qu. Natur. L. vi. c. 6, 10. *Sturmii* Philoſ. Elect. Tom. I. Exerc. xi. c. 5. Qui plura vult, conſulat *Jac. Ode* Philoſ. Nat. Princ. Tom. II. c. 3. p. 76. Vel *Chambers's* Dictionary, ad vocem EARTHQUAKE. Vid. infra Quæſtionem *de Tonitru & Fulgure*, c. 4.

31. *Utr.* Fontes oriantur e mari?

Aff. Le Grand Inſtit. Philoſ. P. vi. c. 7. *Varenii* Geogr. L. i. c. 16. Prop. v. p. 203. *Hook's* Micrògr. p. 25. *Rohault's* Phyſ. p. 3. c. 10. *Clerici* Phyſica, L. ii. c. 7. *Plin.* Nat. H. L. ii. c. 97. *Honor. Fabri* Phyſ. Tract. vi. L. iii. Prop. 110. *Kircheri* Mund. ſubterran. L. iii. Sect. ii. c. 8. *Bocco* in Act. Erud. Suppl. Tom. III. p. 197. *Cartes* Princ. Phil. p. 4. § 64. *Claubergii* Diſp. Phyſ. 24. *Andalæ* Phyſ. P. iv. Exerc. 11. *Michelottus* in Append. ad *J. Bernoulli*

Bernoulli de Efferveſc. *Gulielmini* della Natura de Fiumi.

Neg. De la Hire, Memoires de l'Acad. 1703. p. 60. 1713. p. 56. *Sideleau* Memoires de l'Acad. 1693. p. 321.

Sunt, qui ex imbribus & ſolutis nivibus derivant. *Perrault* Memoires de l'Acad. *Marriotte*'s Hydroſtaticks engliſh'd by Dr. *Deſaguliers*, P. i. Diſc. ii. p. 13. *Caſpar. Bartholini* Diſſert. de Orig. Font. quæ recenſetur in Act. Erud. Tom. II. Supplem. p. 539---542. *Hamelii* Hiſt. Acad. Reg. p. 321. *Niewentyt*'s Religious Philoſ. V. II. Contempl. xix. § 45.

Nonnulli utrique cauſæ fontes attribuunt. *Regnault*'s Philoſoph. Converſ. V. II. p. 111. *Philoſ. Burgund.* Tom. II. p. 1016. *Buddei* Philoſ. Theor. P. iii. c. 1. *Dale*'s Hiſtory of *Harwich*, p. 332.

Woodwardus fontes ex viſceribus telluris, & aquarum abyſſo ibidem repoſita (ope ſubterranei ignis) repetit. Natural Hiſt. of the Earth, P. iii. S. 1.

Hodie vero receptiſſima eſt HALLEI Hypotheſis, qui eos a vaporibus ut plurimum derivat. Vid. Miſc. Curioſ. V. I. p. 1. *Lowthorp*'s Abridgment of Philoſoph. Tranſ. V. II. p. 108, 126, 192, 298, 305, 329, 351. Philoſoph. Tranſ. Nº

119,

119, 189, 192, 384, 424. Dr. *Hale*'s Statical Eſſays, V. I. p. 56. V. II. p. 257. Meteorological Eſſays, Treat. i. *Boerhaave*'s Chem. Elem. 4to. Tom. I. p. 473. Compendious Syſtem of Nat. Philoſ. P. ii. Diſſert. iii. *Harris*'s Lexicon, and *Chambers*'s Dictionary, ad vocem SPRING.

32. *Utr.* Thermarum ſeu Fontium calidorum generatio ab igne ſubterraneo derivetur?

Aff. *Woodward*'s Natural Hiſt. of the Earth, P. iii. S. 1.

Neg. Et admiſtioni ſulphurearum particularum attribuunt *Varenius* in Geogr. Gen. L. i. c. 17. Prop. 7. p. 196. *Jac. Ode* Philoſ. Nat. Princ. Tom. II. p. 51. *Philoſ. Burgund.* Tom. II. p. 1021.

33. *Utr.* Aquarum mineralium generatio recte explicetur â VARENIO?

Aff. *Varen.* Geogr. Gen. L. i. c. 17. Dr. *Shaw*'s New Experiments on Mineral Waters. Philoſ. Tranſact. Nº 137. p. 247. Nº 351. p. 564. Nº 49, 111. p. 234. *Kircheri* Mund. ſubterr. Tom. I. Sect. ii. c. 3. *Boyle*'s Nat. Hiſtory of Mineral Waters; or, *Shaw*'s Abridgment, V. III. p. 495.

495. ſeqq. *Jac. Ode* Phil. Nat. Tom. II. p. 71.

34. *Utr.* Lacuum generatio & conſervatio recte exponatur â VARENIO?

Aff. Varen. Geogr. Gen. L. i. c. 15. p. 144.

35. *Utr.* Fluviorum origo vera aſſignetur â VARENIO?

Aff. Varen. Gen. L. i. c. 16. *Niewentyt*'s Relig. Philoſ. V. II. Contempl. xix. § 45. *Chambers*, ad voc. RIVER.

36. *Utr.* Inundationis *Nili* vera cauſa explicetur â SENECA?

Aff. Senecæ Nat. Qu. L. iv. c. 2. Vol. II. p. 747.

Neg. Varenii Geogr. L. i. c. 16. Prop. 20. *Salmon*'s Modern Hiſt. Vol. V. p. 10. *Boyle*'s Works abridg'd by *Shaw*, V. I. p. 433. Univerſal Hiſtory, V. I. p. 180.

37. *Utr.* Inſulæ dentur, quæ mari innatant?

Aff. E veteribus plurimi: ut, *Thales*, *Seneca*, *Plinius*, &c. & e recentioribus, *Boethius* in Hiſtoria *Scotiæ*, & *Varenius* in Geogr. Gen. L. i. c. 18. Prop. 14.

38.

38. *Utr.* Aquarum marinarum ſalſedinis cauſa vera aſſignetur ab HALLEIO?

Aff. Philoſ. Tranſact. N° 344. *Varenii* Geogr. L. i. c. 13. Prop. 8, 9, 10.

39. *Utr.* Aqua marina ab arte reddi poeſt dulcis?

Aff. *Buddeus* in Philoſ. Theoret. P. i. c. 1. § 38. *Boyle* on the Saltneſs of the Sea; or, *Shaw*'s Abridgment, V. I. p. 597.

40. *Utr.* Aquæ marinæ gravitas ſpecifica debeat eſſe pluviali major?

Aff. *Varenii* Geogr. Gen. L. i. c. 13. Prop. 12. *Lowthorp*'s Abridgment of Philoſ. Tranſact. V. II. p. 297.

41. *Utr.* Frigus oriatur ex mera partium quiete?

Affirmant, Qui ignem elementarem tuentur. V. ſupra, Cap. 1. Qu. 30. & ſpeciatim *Jac. Ode* Philoſ. Nat. Princ. Tom. I. p. 209.

Negant, Et particulas quaſdam *frigorificas* (forte *nitroſas*) requirunt *Gaſſendus*, Philoſ. Tom. I. p. 172. *Boyle*'s Hiſt. of Cold; or, *Shaw*'s Abridgment, V. I. p. 530. *Cheyne*'s Philoſ. Princ. p. 61. *Bud-*

deus de Phil. Theor. P. v. c. 4. § 16. *Stairius* Phyſ. Nov. Expl. 16. N. 22.

42. *Utr.* Aquæ congelatio ex merâ ignis privatione ſolvatur?

Aff. Carteſiani.

Neg. Philoſ. Tranſact. A. D. 1666. p. 196. Compend. Syſt. of Nat. Phil. P. ii. c. 1. § 2. Note. *Marriotte*'s Hydroſtat. p. 2. *Muſſchenbroek* Elem. Phyſ. p. 222. § 803, 804. L'Hiſtoire de l'Acad. 1712. p. 27. *Boyle*'s Works abridg'd by *Shaw*, V. I. p. 210, 478, 716. V. Singulorum Hypotheſes clare expoſitas in *Chambers*'s Dict. ad voc. FREEZING.

43. *Utr.* Aqua congelata dilatari & rarefieri debeat?

Aff. Boyle's Works abridg'd by *Shaw*, V. I. p. 615. *Rohaulti* Phyſ. P. i. c. 23. § 35. *Hale*'s Statical Eſſays, V. II. p. 277. *Jac. Ode* Philoſ. Nat. Tom. I. p. 210. *Boerhaave* Elem. Chem. Tom. I. p. 621. Compendious Syſt. of Nat. Phil. P. ii. c. 1. § 2. Not. 3. *Chambers* ubi ſupra.

44. *Utr.* Aqua in fluminibus juxta fundum ſit prius congelata?

Aff.

Aff. Dr. *Hale*'s Statical Eſſays, V. II. p. 355. Dr. *Plot*'s Hiſt. of *Oxfordſhire*. *Boyle*'s Works abridg'd by *Shaw*, V. I. p. 643.

45. *Utr.* Lachrymarum vitrearum Phænomena ſolvantur ex naturali effectu caloris & frigoris?

Aff. *Sturmii* Colleg. Curioſ. P. II. Tent. vi. § 10. *Jac. Ode* Philoſ. Nat. Princ. Tom. I. p. 77. *Rohaulti* Phyſ. P. i. c. 22. § 47. *Worſter*'s Princ. of Philoſ. p. 162. *Regnault*'s Philoſoph. Converſ. V. I. p. 346. *Hook*'s Microgr. Obſ. vii. *Homberg* Hiſtoire de l'Acad. L. iv. S. i. c. 1.

46. *Utr.* Magnetis Phænomena ſolvantur ex principiis mechanicis?

Aff. *Carteſ.* Princ. P. iv. § 133, &c. *Philoſ. Burgund.* T. II. P. 1093. *Le Grand* Inſtit. Philoſ. P. vi. c. 10. *Bernoulli* de Gravit. Ætheris, p. 2. *Rohault*'s Phyſ. P. iii. c. 8. *Sturmii* Philoſ. Elect. Tom. I. p. 468. & Tom. II. p. 1109. *Andala*, P. iv. Exerc. 16. § 25. Philoſ. Converſ. by *Regnault*, V. I. p. 196. *Hook*'s Poſt. Works, p. 364.

Solutionem prorſus novam & è proprio ingenio depromptam coram Regiâ Societate pro-

propoſuit HALLEIUS, Philoſ. Tranſact. N° 148. *Lowthorpe*'s Abridgment, V. II. p. 610. Miſcellanea Curioſa, V. I. p. 43.

Neg. *Newtoni* Princip. Math. L. ii. Schol. ad Prop. xxiii. *Muſſchenbroek* Phyſ. Exper. de Magnete, 4to. & Elem. Phyſ. § 573.

Varia magnetis Phænomena necnon & diverſas eorum ſolutiones expoſitas vid. apud *Cleric.* in Phyſ. L. ii. c. 6. Conf. *Hawksbee*'s Phyſico-Mech. Exp. p. 322. *Jac. Ode* Philoſ. Nat. Tom. II. c. 3. p. 95. ſeqq. *Whiſton*'s Doctrine of the Magnet. *Kircheri* Ars Magnetica. *Chambers*'s Dictionary, ad vocem MAGNET.

47. *Utr.* Corporum Electricorum Phænomena ex mechanicis principiis ſolvi poſſint?

Carteſiani primo Elemento attribuunt. *Carteſ.* Princip. P. iv. § 184. Vid. ſupra, C. 1. Qu. 6.

Newtoniani Vi Attractici. *Keilii* Ep. de Leg. Attract. Theorem. 30. vel in Oper. 4to, p. 635. *Newtoni* Optic. in Qu. ſub finem. *Deſaguliers*'s Exper. Philoſ. p. 17, 21. *Worſter*'s Princ. of Phil. p. 29. *Graveſande* El. Math. L. iii. c. 2.

Bernoulli

Bernoulli ætheri cuidam ignoto. De Gravit. Ætheris, p. 23. Quiddam huic ſimile innuere videtur *Newtonus* in Princ. Math. pag. ult. & in Opt. Qu. 18. ſeqq.

Sunt, qui effluviis corporis electrici & rarefactioni aëris adſcribenda eſſe volunt; ut *Gaſſendus*, *Gilbert*, *Digby*. Vid. *Chambers*'s Dictionary, ad vocem ELECTRICITY.

Varia Electricitatis Phænomena, vid. apud *Boyle*. *Shaw*'s Abridgment, V. I. p. 397---510. *Hawksbee*'s Phyſico-Mechanical Experiments, p. 139. Compendious Syſt. of Nat. Phil. P. I. c. 3.

Plurima nova Phænomena (quæ notis hodiernæ Philoſophiæ legibus vix ſubjici poſſint) invenit *Steph. Gray*, Philoſoph. Tranſact. N° 417. or *Deſaguliers*'s Exper. Philoſ. V. II. p. 450.

48. *Utr.* Corporum Elaſticitas ſolvatur ab attractione & repulſione?

Neg. Ope materiæ ſubtilis ſolvunt *Carteſiani*. *Rohaulti* Phyſica, P. i. c. 22. § 37. *Clerici* Phyſ. L. v. c. 17. *Philoſ. Burgundia*, Tom. II. p. 805. *Carteſ.* Epiſt. 23, 94. *Franc. de Lanis*, Mag. Nat. & Art. Tom. II. L. vi. c. 2. Prop. 9. V. ſupra, Cap. 1. Qu. 10.

Aff.

Aff. *Newton.* Optic. p. 338. *Sturm.* Phyſ. Elect. Tom. I. p. 331. *Cheyne*'s Philoſ. Princ. p. 107. *Graveſande* Elem. Math. L. i. c. 5. p. 12. *Muſſchenbroek* Elem. § 396. *Jac. Ode* Philoſ. Nat. Princ. Tom. I. p. 70. V. ſupra, Cap. 1. Qu. 20, 21.

Varia Elaſticitatis Phænomena, vid. in *Shaw*'s Abridgment of *Boyle*'s Works, V. I. p. 492. V. II. p. 125, 488.

Diverſas de Elaſticitate Hypotheſes nobis exhibet *Chambers*'s Dictionary, ad vocem ELASTICITY.

C A-

CAPUT III.

QUÆSTIONES CHEMICÆ.

1. UTRUM quinque ſint Chemicorum Elementa?

Quidam cum *Paracelſo* tria fingunt Principia vel Elementa; alii his duo addunt & conficiunt quinque, *viz.* Salem, Sulphurem, Mercurium, Aquam vel Phlegma, & Terram vel Caput mortuum, e quibus omnia corpora, utcunque mixta, componuntur, & in quæ ab arte Chemicâ reſolvi poſſunt. Vid. *Chambers's* Dict. ad voc. ELEMENT. *Freind's* Pælect. Chym. p. 2. *Jac. Ode* Philoſ. Nat. P. i. S. 1. c. 4. p. 56. *Rohaulti* Phyſ. P. i. c. 20. *Clerici* Phyſ. L. 5. c. 1. § 15. Philoſ. Vetus & Nova, Tom. III. Tract. i. Diſp. 3. Qu. 5.

At celeberrimi inter recentiores de re Chemicâ ſcriptores negant corpora in principia ſua poſſe reſolvi, adeoque nihil omnino de Elementis a nobis intellectum eſſe contendunt. *Boyle's* Sceptical Chymiſt, and Production of Chymical Principles. *Shaw's* Abridgment, V. I. p. 267. V. II. p. 123.

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& V. III. p. 261, 299. *Boerhaave*'s Chemiſtry, with *Shaw*'s Notes, p. 175. *Homberg*'s Memoires de l'Acad. Roy. A. D. 1702.

2. *Utr.* Detur Menſtruum univerſale?

Neg. *Boerhaave* Elem. Chem. V. I. p. 848. *Buddei* Philoſ. Theor. P. ii. c. 3. § 7.

3. *Utr.* Aurum arte Chemica ex quibuſvis aliis metallis confici poſſit? Sive,

Utr. Dari poſſit Mercurius Philoſophicus*?

Neg. *Le Grand* Inſtitut. Philoſ. P. vi. c. 8. *Boerhaave* & *Buddeus* in loc. cit. *Boyle*'s Works abridg'd by *Shaw*, V. I. p. 372, 381, 456. V. III. p. 408.

Fuerunt, qui eum eſſe inventum jactitârunt, quos vid. apud *Sturm.* Philoſ. Elect. Tom. II. p. 426. Mira de ejus effectibus fabulatur *Wedelius* in Act Erudit. *Lipſienſ.* A. D. 1707. p. 408.

4. *Utr.* Dari poſſit Metallorum tranſmutatio?

Aff. *Boyle* in *Shaw*'s Abridgment, V. I. p. 166, 207, 267, 382. V. III. p. 438.

* Anglicè, *The Philoſopher's Stone.*

Homberg

Homberg Memoires de l'Acad. 1709. p. 139, 143. *Gaſſendi* Opera, Tom. II. p. 135.

Neg. Ray on the Creation, P. i. p. 113. Conf. libros ſupra citatos.

5. *Utr.* Solidorum diſſolutio in menſtruis ſolvatur ab attractione?

Aff. Freind Prælect. Chym. L. vi. p. 88. *Boerhaave* Elem. Chem. V. I. p. 699, &c. *Shaw*'s *Engliſh* Edition of it, p. 342. *Boyle*'s Works abridg'd by *Shaw*, V. I. p. 301. V. II. p. 472. *Joan. Keil* de Leg. Attract. Epiſtola ſub fin. vel in Operibus, 4to, p. 633. *Newtoni* Optic. Qu. 23. p. 322. *Molineux* in Miſcell. Curioſ. V. II. p. 300. vel in Philoſ. Tranſact. Nº 181. vel in *Lowthorp*'s Abridg. V. I. p. 535. *Clarkii* Not. ad *Rohault*. Phyſ. P. i. c. 22. § 9, 17.

6. *Utr.* Corpuſculorum Innatatio in menſtruis ſpecificè levioribus ſolvatur ab attractione?

Conſ. Auctores ſupra citati.

7. *Utr.* Fermentatio in menſtruis ſolvatur a legibus attractionis & repulſionis?

Aff. Dr. *Freind* Prælect. Chym. L. v. p. 60. *Boyle*'s Works abridg'd by *Shaw*, V.

 III.

III. p. 213. *Newtoni* Opt. Qu. ult. p. 339.

8. *Utr.* Cryſtallizatio ſolvatur a legibus attractionis?

Aff. Dr. *Freind* Præl. Chymicæ, L. viii. *Shaw*'s Abridgment of *Boyle*, V. I. p. 46, 243. V. III. p. 133.

9. *Utr.* Diſtillatio, ſive Evaporatio, ſolvatur a ſpecificæ gravitatis ratione?

Aff. Dr. *Freind* Præl. Chym. L. iii. p. 31. *Jac. Ode* Philoſ. Nat. Tom. II. p. 157. Probl. 6. *Hamelii* Hiſtor. Acad. Reg. p. 437. *Niewentyt*'s Relig. Philoſ. Contempl. 19. S. 17, 18. *Boerhaave* Elem. Chem. Tom. I. p. 479. *Boyle*'s Works abridg'd by *Shaw*, V. I. p. 46, 386. V. III. p. 278.

10. *Utr.* Animalium & vegetabilium Petrificatio ſolvatur ex Legibus Naturæ?

Aff. Varen. Geogr. Gener. L. i. c. 17. Prop. 17. *Bacon*'s Works abridg'd by *Shaw*, V. III. p. 561, 571. *Lowthorp*'s Abridgment of Philoſ. Tranſactions, V. II. p. 321, 325. *Sen.* Nat. Qu. L. iii. c. 20. *Hook*'s Poſt. Works, p. 281. *Rohaulti* Phyſ. P. iii. c. 10. § 13. *Plin.* Nat. Hiſt.

L.

L. ii. c. 103. *Gaſſendi* Opera, Tom. II. L. iii. c. 3. p. 119. *Chambers's* Dict. ad voc. PETRIFACTION.

11. *Utr.* Aqua in terram, & viciſſim terra in aquam poſſit converti?

Aff. *Boerhaave* Elem. Chem. V. I. p. 627. *Shaw's* Abridgment of *Boyle*, V. I. p. 265, 269. V. III. p. 417---421.

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CAPUT. IV.

QUÆSTIONES METEOROLOGICÆ.

1. UTRUM Generalis Ventorum cauſa ſolvatur ex rotatione telluris circa axem?

Aff. *Carteſ.* de Meteor. c. 4. § 2. *Fr. Bayle* Inſtitut. Phyſ. Tom. II. p. 508. *Sturmii* Mod. Phyſ. Part. ii. S. 1. c. 6. § 5. *Marriotte* de motu aëris, p. 50. & *Le Grand* Inſtit. Philoſ. P. vi. c. 14.

Neg. Philoſophi recentiores, qui rarefactioni a Solis calore attribuunt. *Varen.* Geogr. Gen. L. i. c. 20. Pr. 10. *Jac. Ode* Phil. Natur. Princ. Tom. II. p. 161. *Graveſande* Elem. L. iii. c. 4. *Wolfii* Elem. Math Univ. Tom. II. p. 660. *Budde* Philoſ. Theor. P. iii. c. 3. §. 22.

2. *Utr.* Ventorum intra Tropicos ſpirantium cauſa vera aſſignetur ab HALLEIO?

Aff. Hypotheſin *Halleii* vid. in Miſcell. Cur. V. I. p. 61. Conf. *Gordon*'s Account in Philoſ. Tranſ. Nº 17. or, *Lowthorp*'s Abridgment, V. II. p. 129. *Liſter* in Philoſ. Tranſ. Nº 156. or, *Lowthorp*'s Abridgment

ment, V. II. p. 129. *Baconi* Hiſtoria ventorum; or *Shaw*'s Abridgment, V. III. p. 441---500. *Varenii* Geogr. Gener. L. i. c. 21. *Marriotte*'s Hydroſtat. p. 25. *Chambers*'s Dictionary, ad vocem WIND.

Neg. Rohaulti Phyſ. P. iii. c. 11. *Joſ. Acoſtæ* Hiſt. Ind. Occid. L. iii. c. 4. *Clerici* Phyſ. L. iii. c. 5. *Franc. Bayle* Inſtit. Phyſ. Tom. II. p. 491, 495. *Becmanni* Hiſt. Orbis Terr. p. 17. *Kircher*. Mund. ſubterr. Tom. I. L. iv. p. 194. *Riccioli* Almag. Nov. L. ix. p. 328. *Sturmii* Phyſ. Mod. P. iii. S. 1. c. 6.

3. *Utr.* Auroræ Borealis Phænomena adhuc ſolvantur?

Aff. Halleius ſolutionem reddit ex materiâ quâdam ſubtili & lucidâ a terrâ ad ſuperiores atmoſphæræ partes evectâ. Philoſ. Tranſ. N° 310, 347, 376. or, *Jones*'s Abridgment, V. IV. p. 135. Conf. Philoſ. Converſat. V. III. p. 139. *Hook*'s Poſt. Works, p. 193. *Boyle*'s Works abridg'd by *Shaw*, V. III. p. 61. *Whiſton*'s Treatiſe of the Aurora Borealis of 1715-6.

Nuper in publicum prodiit alia ſolutio petita ex commiſturâ Atmoſphæræ ſolaris cum terreſtri. Traite Phyſique et Hiſtorique de l' Aurore Boreale, par M. de *Mairan*. Philoſoph. Tranſ. N° 431.

4. *Utr.*

4. *Utr.* Parheliorum, Paraſelenarum, Halonum, & ejuſmodi Meteorôn Phænomena ſolvi poſſint?

Aff. *Newtoni* Opt. p. 147. Philoſ. Converſ. by *Regnault*, V. II. p. 389. *Jac. Ode* Phil. Natur. Tom. II. p. 169, 172. *Carteſ.* de Meteoris, c. 10. § 1. *Carteſium* refellit *Sturmius* in Phyſ. Elect. Tom II. p. 1339, 1356. *Gaſſendi* Epiſtola de Parheliis, quæ extat in Oper. Tom. II. p. 91. *Shaw*'s Abrigment of *Boyle*, V. I. p. 656. V. III. p. 59. *Clerici* Phyſica, L. iii. c. 3. *Lowthorp*'s Abridgment, V. II. p. 189. *Hugenii* Opera Poſth. *Hook*'s Poſt. Works, p. 364. *Chambers*'s Diction. ad voces HALO, PARHELIUM.

Quæſtiones de Iride vid. infra, C. 8.

5. *Utr.* Ignis fatuus ſit Meteoron?

Aff. *Jac. Ode* Philoſ. Nat. Tom. II. p. 185. *Anton. Le Grand* Hiſt. Nat. P. iv. Art. 10. § 9. *Boyle*'s Works by *Shaw*, V. II. p. 400. *Newtoni* Opt. Qu. 10.

6. *Utr.* Tonitru & Fulgur oriantur ex fermentatione vaporum Sulphure & Nitro imbutorum?

Aff.

Aff. *Newtoni* Optic. p. 376. Hypotheſin copioſè & accuratè expoſuit *Walliſius*, Miſcellan. Curioſ. V. II. p. 315. Philoſoph. Tranſact. N° 231. p. 655. *Lowthorp*'s Abridgment. V. II. p. 182. & V. IV. p. 126. *Boerhaave*'s Elem. Chem. V. I. p. 477. *Buddei* Philoſ. Theor. *Hooke*'s Poſt. Works, p. 59, 169, 424. *Harris*'s Lexic. V. II. & *Chambers*'s Dict. ad voc. THUNDER.

Neg. Tonitrûs fragorem excitatum eſſe a nubibus in ſe invicem magno impetu ruentibus tradunt *Carteſiani*. *Carteſ.* Meteor. c. 7, 8. *Rohaulti* Phyſ. P. iii. c. 16. *Clerici* Phyſ. L. iii. c. 4. *Regnault*'s Philoſ. Converſ. V. III. p. 120. *Fromondi* Meteor. L. ii c. 3. Art. 10, 11. *Mori* Enchir. Metaph. c. 23. *Schotti* Phyſ. Cur. L. xi. c. 21. § 5. *Le Grand* Phyſ. Inſtit. P. vi. c. 23. *Chauvini* Lexicon Philoſoph. ad voc. TONITRU.

Veterum Philoſophorum ſententias exponunt *Ariſtoteles* de Meteor. L. ii. c. 9. *Seneca* in Nat. Qu. L. 2. c. 18, 20. *Plutarchus* de Plac. Philoſ. L. iii. c. 3. *Plinius* in Hiſt. Nat. L. ii. c. 43.

Varios & mirandos fulminis effectus tradunt *Plutarch.* Sympoſ. L. iv. Qu. 2. *Seneca* Qu. Nat. L. ii. c. 31. *Plin.* Nat.

Hiſt. L. ii. c. 31. & L. xxxv. c. 15. *Boyle*'s Works abridg'd by *Shaw*, V. I. p. 88, 421, 475. V. III. p. 32, 41, 70. Philoſ. Tranſact. A. D. 1666. *Hartnacci* Admir. Phyſ. p. 316. *Jac. Ode* Philoſ. Nat. Tom. II. p. 189. *Gaſſendi* Op. Tom. II. L. ii. c. 4. p. 85. *Hale*'s Stat. V. I. p. 261.

7. *Utr.* Pluviæ, nivis & grandinis cauſæ generales explicari poſſint?

Aff. Varen. Geograph. Gen. L. i. c. 19. *Boerhaave* Chem. Elem. Tom. I. p. 473, 476. *Lowthorp*'s Abridg. V. II. p. 146, 148, 441. *Jac. Ode* Philoſ. Nat. P. ii. p. 178. *Wallis*'s Letter in Miſcell. Cur. V. II. Meteorological Eſſays, Ch. 2. p. 39. *Philoſ. Burgund.* Tom. II. p. 1051. *Carteſ.* Meteor. c. 6. *Rohaulti* Phyſ. P. iii. c. 14. *Franc. Bayle* Inſtit. Phyſ. Tom. II. p. 473. *Sturmii* Phyſ. Elect. Tom. II. p. 1235. *Boyle*'s Exper. on Cold. *Shaw*'s Abridgm. Vol. I. p. 696. *Gaſſendi* Op. Tom. II. L. ii. c. 2, 3. *Chambers*'s Dict. ad voc. RAIN, SNOW, HAIL.

CAPUT. V.

QUÆSTIONES MECHANICÆ.

1. UTRUM detur Motus in rerum naturâ?

Negarunt quidam e veteribus, ut *Diodorus* & *Zeno*, quorum argumenta, non ſine multâ ſubtilitate & ornatu, propoſuit *Pet. Bayle* Hiſtor & Critic. Dictonary, Art. ZENO.

Eadem ſeriò refellunt *Keil.* Introd. ad Phyſic. L. vi. p. 61. His Examination of *Burnet*'s Theory, p. 2. *Jac. Ode* Philoſ. Natur. Tom. I. c. 6. p. 83. *Carteſ.* Epiſt. P. i. Ep. 118. *Sturmii* Phyſ. Elect. Tom. I. S. 3. c. 16. *Gaſſendi* Op. L. v. c. 1.

2. *Utr.* Motus ſit æternus?

Aff. *Ariſtot.* de Cœlo, L. i. c. 10. & Phyſ. L. viii. c. 1. *Hobbs* Phyſic. c. 26. *Spinoſ.* Op. Poſt. P. i. Prop. 3. & P. ii. Prop. 2, & 13. Lemma 3. *Ocellus Lucan.* Cap. 1. *Blount*'s Oracl. of Reaſon, p. 210. *Toland*, Letter iii.

Neg. *Bentley*'s *Boyle*'s Lectures, Serm. vi. Dr. *Sam. Clarke* on the Being and Attrib. of God, Prop. iii. p. 25, 31. *Jac. Ode* Philoſ. Nat. Tom. I. c. 6. p. 84. *Cheyne*'s Philoſ. Princ. of Relig. Ch. 3. § 4. *Burgund. Philoſ.* Tom. II. p. 788. *Cudworth*'s Intellect. Syſtem, p. 843. *S. Colliber*'s Impart. Enquiry, c. 7. *Seth Ward* on the Being and Attrib. p. 25. V. ſupra, Cap. 2. Qu. 2.

3. *Utr.* Deus ſolus ſit auctor & conſervator motûs?

Aff. *Carteſius*, & qui eum ſequuntur. *Jac. Ode* Nat. Philoſ. Tom. I. c. 6. p. 85. *Carteſ.* Princ. P. ii. § 36.

Neg. *Ariſtoteles* corpus motum ab aëre retro pelli exiſtimat; & recentiores quidam ad aëris elaterium confugiunt. *De Chales* de Elater. Aëris.

Vim impreſſam manere docent melioris notæ Philoſophi. *Newtoni* Princ. Math. L. i. S. 1. *Philoſoph. Burgund.* Tom. II. p. 792. *Chambers*'s Diction. ad vocem MOTION. *Keil.* Introd. ad Phyſ. Lect. 11, 12. Aliique qui leges motûs *Newtonianas* exponunt, V. infra, Qu. 8.

4. *Utr.* Diſtinguendus ſit motus abſolutus a relativo?

Aff. *Newtoni* Princ. Math. p. 6. *Keil.* Introd. ad Phyſ. Lect. 7. *Graveſande* Elem. Phyſ. L. i. c. 6.

Sunt, qui negant diſtinctionem admitti debere. *Law* on the Ideas of Space, Time, *&c.* c. 1. p. 71. *Chauvin.* Lexic. Philoſ. ad voc. *Motus localis.* *Leibnitz* 5th Letter to *Clarke*, p. 205. Elementa Logicæ, P. ii. c. 2. S. 6. § 3.

5. *Utr.* Quies ſit quiddam poſitivum?

V. ſupra, Cap. 1. Qu. 32.

6. *Utr.* Detur abſoluta Quies in rerum naturâ?

V. ſupra, Cap. 1. Qu. 33.

7. *Utr.* Eadem ſemper ſit motûs quantitas in rerum naturâ?

Aff. *Carteſ.* Princ. P. ii § 36. *Franc. Bayle* Philoſ. Inſtitut. Tom. I. p. 104. *Andalæ* Exercitat. Acad. P. ii. Exerc. 12. § 14, 21.

Neg. *Newtoni* Optic. Qu. ult. p. 341. *Keil.* Introd. ad Phyſ. L. xiii. p. 157. *Jac. Ode* Philoſ. Nat. Tom. I. c. 6. p. 107. *Hugenii*

Hugenii Op. Poſth. p. 378. *Philoſ. Burgund.* Tom. II. p. 794. *Senguerd.* Philoſ. Nat. P. i. c. 5. § 20. Acta eruditorum *Lipſienſ.* A. D. 1686. p. 161. *Graveſande* Elem. Phyſ. L. i. c. 21. Exper. 12, 13. *Chambers*'s Diction. ad vocem MOTION.

8. *Utr.* Admittendæ ſint NEWTONI tres leges Naturæ?

Aff. *Newtoni* Princ. Math. L. i. S. 1. *Keil.* Introd. ad Phyſ. L. xi, xii. *Graveſande* Elem. Math. L. i. c. 16. *Domckii* Philoſ. *Newton.* Tom. II. p. 15. Compendious Syſtem of Nat. Philoſ. P. i. c. 4. *Deſaguliers*'s Courſe of Exper. Philoſ. V. I. Lect. 5. p. 284. *Cheyne*'s Phil. Princ. c. 1. *Worſter*'s Philoſ. p. 45.

Neg. Dr. *Green*'s Princ. of Philoſ. B. ii. c. 1. & diverſas prorſus naturæ leges inſtituit *Carteſius* Princ. P. ii. § 37. ſeqq. Quas aut inutiles aut falſas eſſe oſtenditur in *Philoſ. Burgund.* Tom. II. p. 796. *Keil*'s Examination of *Burnet*'s Theory, p. 10.

9. *Utr.* Corpus viribus conjunctis diagonalem parallelogrammi eodem tempore deſcribere debeat, quo latera ſeparatis?

Aff.

Aff. *Newtoni* Princ. Math. p. 14. *Domckii* Philoſ. *Newton.* Tom. II. p. 16. cum auctoribus ſupra laudatis.

10. *Utr.* Summa vel differentia motuum in corporibus non elaſticis ſibi mutuo impingentibus eadem maneat poſt impactum, quæ priùs?

Aff. *Newtoni* Princ. Math. p. 17. *Graveſande* Elem. Math. L. i. c. 20. *Keil.* Phyſ. Lect. 13. *Rohaulti* Phyſ. P. i. c. 11. § 6. Not. *Domckii* Philoſ. *Newton.* Tom. II. p. 23. Compendious Syſtem of Nat. Phil. P. i. c. 9. *Jac. Ode* Phil. Nat. L. i. c. 6. p. 103. *Marriotte* de la Percuſſion. *Sturmii* Phyſ. Elect. Tom. I. p. 772, 780. *Whiſtoni* Præl. Phyſico-Math. Lect. v. *Wolfii* Elem. Mechan. c. 11. *Wallis* Mechan. c. 11. p. 660. Ed. 4to. *Wren* in Philoſ. Tranſ. N° 43. *Carteſii* Princ. P. ii. § 40--53. Ejuſdem Epiſt. P. i. p. 217. *Malebranche*'s Search after Truth, L. vi. c. 9. *Philoſ. Burgund.* Tom. II. p. 810. *Hugenii* Opuſc. Poſt. *Chambers*'s Diction. ad VOC. PERCUSSION.

Neg. *Green*'s Princ. of Philoſ. L. ii. c. 2.

11. *Utr.*

11. *Utr.* Corporibus perfectè elaſticis in ſe mutuò impingentibus eadem maneat motûs quantitas ante & poſt impactum?

Conſulantur libri in noviſſimâ quæſtione citati.

12. *Utr.* Corporibus perfectè elaſticis in ſe mutuò impingentibus angulus reflectionis ſit angulo incidentiæ ſemper æqualis?

Aff. Jac. Ode Philoſ. Nat. Tom. I. p. 87. *Keil.* Introd. ad Phyſ. Lect. cæterique citati ad Qu. 10.

13. *Utr.* Corporum gravium deſcenſus mechanicè explicari poſſit?

Aff. Globulorum cœleſtium preſſuræ attribuit *Carteſius* Princip. P. iv. § 20. ſeqq. *Rohaulti* Phyſ. P. ii. c. 28. § 8. *Ant. Le Grand* Inſtit. Philoſ. P. iv. c. 9. *Andala*, P. iv. Exerc. 2. § 15. *Philoſ. Burgund.* Tom. II. p. 815. Ibidem diverſæ de hâc re Hypotheſes ad examen revocantur.

Ab effluviis terræ magneticis corpora deorſum trahi vult *Gaſſendus.* Op. Tom. I. L. vi. c. 5.

Neg. Newtoni Princ. L. iii. Prop. 4---8. *Clarkii* Not. ad *Rohault.* Phyſ. P. ii. c. 28. § 13.

§ 13. *Keil.* Præfat. ad Phyſ. *Graveſande* Elem. Phyſ. L. iv. c. 11. Et *Carteſii* & *Newtoni* Hypotheſes breviter exponit *Jacobus Ode*, Philoſ. Nat. Tom. I. p. 93. V. ſupra, Cap. I. Qu. 25.

14. *Utr.* Corporum vi gravitatis deſcendentium ſpatia deſcripta ſint, ut quadrata velocitatum?

Aff. Galilæus in Syſt. Coſm. Dial. 2. p. 148, 163. Idem de motu locali, Dial. 3. p. 156. *Hugen.* Op. Tom. I. p. 55. *Riccioli* Almag. Nov. Tom. I. L. ii. c. 21. *De Chales* Curſus Mathemat. Tom. I. p. 465---480. *Franc. de Lanis* Mag. Nat. & Art. Tom. I. Tract. iii. L. i. c. 1, 3. *Whiſtoni* Præl. Phyſico-Math. Prælect. ix. *Clark.* Not. ad *Rohault.* Phyſ. P. ii. c. 28. *Graveſande* Elem. Phyſ. L. i. c. 17. *Wolfii* Elem Math. Tom. I. p. 558. *Keil.* Phyſic. Præl. xi. *Jac. Ode* Philoſ. Nat. Tom. I. p. 93. Compendious Syſtem of Nat. Phil. P. i. c. 5. *Deſaguliers*'s Exper. Philoſ. V. I. p. 317, 331, 369, 457. *Wallis* Mechan. P. i. c. 2. p. 33. *Pemberton*'s View of the *Newton.* Phil. p. 56. *Worſter*'s Nat. Philoſ. p. 58. *Coteſii* Op. Miſcell. p. 76. Miſcell. Cur. V. I. p. 304. *Chambers*'s Dictionary, ad voc. DESCENT.

15. *Utr.* Corporis per planum inclinatum deſcendentis diminuatur gravitas in ratione inclinationis plani?

Conſ. Auctores ſupra citatos.

16. *Utr.* Omnia corpora, ſepoſitâ medii reſiſtentiâ, deſcendere debeant æquivelocia?

Aff. *Newton.* Princ. in Schol. generali, p. 527. *Graveſande* Philoſ. *Newton.* L. i. c. 9. *Muſſchenbroek* Phyſ. Elem. L. i. c. 10. § 162. *Derham's* Phyſico-Theol. B. i. c. 5. Note *a.*

Neg. Sir *Kenelme Digby* of the Nature of Bodies, P. i. c. 10. p. 101.

17. *Utr.* Corporum gravium cadere incipientium velocitas ſit infinitè parva?

Aff. *Galilæus* de motu locali, p. 143. *Marriotte* de la Percuſſion, p. 273--289. Quibus adjungas auctores laudatos in Qu. 13.

18. *Utr.* Vibrationes penduli in Cycloide moti ſint iſochronæ?

Aff. *Newtoni* Princip. Math. L. i. Prop. 50--53. L. ii. Sect. 6. *Whiſtoni* Præl. Phyſico-Math. Lect. 10. p. 100. *Wallis* Opera,

Opera, V. I. p. 533. *Domckii* Philoſ. *Newton.* Tom. II. p. 42. *De Chales* Curſus Mathem. Tom. I. p. 508. *Coteſii* Op. Miſcell. p. 80. *Hugenii* Horol. Oſcillat. p. 140. *Graveſande* Elem. Phyſ. L. i. c. 19. *Wolfii* Elem. Math. Univ. Tom. I. p. 596, 602. *Franciſc. de Lan.* Mag. Nat. & Art. Tom. I. p. 337, 393. Compendious Syſtem of Nat. Philoſ. P. i. c. 6. *Pemberton*'s View, B. i. c. 2. *Worſter*'s Nat. Philoſ. p. 78. *Deſaguliers*'s Exper. Philoſ. V. I. p. 229--331, 369--375. *Harris*'s Lexicon, and *Chambers*'s Diction. ad voc. PENDULUM.

19. *Utr.* Tempora vibrationum pendulorum longitudine æqualium in diverſis telluris latitudinibus diverſa eſſe debeant?

Aff. *Newtoni* Princ. L. iii. Prop. 20. *Graveſande* Elem. Phyſ. L. i. c. 19. Philoſ. Tranſact. N° 432. p. 302. Add. Libri ſupra citati.

20. *Utr.* Projectilia in motibus ſuis, ſepoſita medii reſiſtentia, moveantur in Parabolis?

Aff. *Galilæi* Syſtem. Coſmic. p. 113. Mechan. p. 214--226. *Newtoni* Princ. L. ii. Prop. 10. p. 256. *Pemberton*'s View,

L. i. c. 2. p. 101. *Coteſii* Op. Miſcell. p. 86. *Keil.* Introd. ad Phyſ. Præl. xvi. Compendious Syſtem of Nat. Philoſ. P. i. c. 7. *Graveſande* Elem. Phyſ. L. i. c. 24. *Deſaguliers*'s Courſe of Exper. Philoſ. V. I. p. 292--300. *Whiſtoni* Præl. Phyſico-Math. Lect. xi. *Domckii* Philoſ. *Newton.* Tom. II. p. 41. *Harris*'s Lexicon, and *Chambers*'s Dictionary, ad vocem PROJECTILE.

21. *Utr.* Vis potentiæ mechanicæ augeatur in ratione auctæ velocitatis?

Aff. Quotquot ſunt, qui de viribus Mechanicis ſcripſêrunt; *Walliſii* Mechanica. *Wilkin*'s Mathemat. Magick. *Clarkius* in Not. ad *Rohault.* Phyſ. P. i. c. 14. *Rohault*'s Treatiſe of Mechanicks engliſh'd by *Watts.* *Wolfii* Elem. Matheſ. Univ. Tom. I. Elem. Mech. c. 13. *Franc. de Lanis*, Tom. I. Tract. 2. L. i. c. 3. *Keil.* Introd. ad Phyſ. Lect. 10. *Graveſande* Elem. Phyſ. L. i. c. 10--15. *Jac. Ode* Nat. Phil. L. i. c. 7. Compendious Syſt. of Nat. Philoſ. P. i. c. 10. *Worſter*'s Princ. of Nat. Philoſ. p. 31--44. *Wells*'s Mechanicks. *Mott*'s Treatiſe on the Mechanical Powers. *Ditton*'s Mechanicks. M. *Varignon* Nouvelle Mechanique. *Deſaguliers*'s Courſe of Exper.

Exper. Philoſ. V. I. *Whiſtoni* Præl. Phyſico-Math. Lect. vi. *Harris*'s Lexicon, and *Chambers*'s Dictionary, ad voc. MECHANICKS.

22. *Utr.* Vis ad cuneum intrudendum requiſita ſit ad reſiſtentiam, in ratione baſis ad ſummam laterum?

Aff. *Clarkii* Not. ad *Rohaulti* Phyſ. P. i. c. 14. § 9. M. *Varignon* Nouvelle Mechanique, V. II. S. 8. p. 149. *Jac. Ode* Philoſ. Nat. Tom. I. p. 143. Compendious Syſtem of Nat. Philoſ. P. i. c. 10. Sunt qui volunt vires eſſe, ut ſemibaſis ad perpendicularem altitudinem; quæ ratio in quibuſdam circumſtantiis facile admitti poſſit. *Deſaguliers*'s Exper. Philoſ. V. I. p. 107, 112. *Whiſtoni* Præl. Phyſ. Lect. vi. p. 64. *Rohault*'s Mechanicks, p. 111.

Neg. Alii minùs juſtè ad æquilibrium reſtituendum requirunt, ut potentia ſit ad reſiſtentiam in ratione baſis ad perpendicularem altitudinem. *Wallis* Mechan. c. 12. p. 683. *Keil.* Phyſic. Lect. x. *Graveſande* Elem. Phyſ. L. i. c. 10. Nº 119. Supplem. Phyſ. in Schol. de ligno findendo, Nº 68. *Worſter*'s Nat. Philoſ. p. 43. *Wolfii* Elem. Mech. c. 13. Theor. 125. p. 666. *Chambers*'s Dict. ad vocem WEDGE.

Nec

Nec deſunt, qui a veritate longiùs remoti vires eſſe ſtatuunt in ratione totius baſis ad unum latus. *Motte* on the Mechanical Powers, p. 138.

Singulorum Hypotheſes accuratè expoſitas vid. in Compendious Syſtem of Nat. Philoſ. P. i. c. 10.

23. *Utr.* In inſtrumentis mechanicis attritus ſit in ratione preſſuræ & ſuperficiei?

Aff. *Deſaguliers*'s Courſe of Exper. Philoſ. V. I. p. 184. & alibi ſæpe. M. *Amontons*, *De La Hire*, M. *Parent* in Memoires de l'Acad. M. *Varignon* in Nouvelle Mechanique. *Chambers*'s Diction. ad voc. FRICTION.

24. *Utr.* Momenta corporum ſibi invicem impingentium ſint in ratione ponderum in celeritates ductorum?

Aff. Omnes Philoſophi noſtrates. *Newtoni* Princ. Math. P. i. Def. 2. Compendious Syſtem of Natural Philoſ. P. ii. c. 1. p. 24. *Note.* *Hook*'s Poſthum. Works, p. 16. Letters between *Clarke* and *Leibnitz*, p. 327. *Note.* Philoſoph. Tranſact. N° 371, 375, 376, 396, 343, 401. *Deſaguliers*'s Courſe of Exper. Philoſ. V. I. p. 43, 327, 393.

Neg.

Neg. Alii momenta eſſe contendunt in ratione ponderum in quadrata velocitatum ductorum. *Graveſande* Philoſ. *Newton.* L. i. c. 22. Ejuſdem Supplem. Phyſ. N° 251. Acta Erud. *Lipſienſ.* A. D. 1686. p.162. 1690. p.234. 1691. p.439. 1695. p. 153. *Muſſchenbroek* Epit. Elem. Phyſ. L. i. § 370.

25. *Utr.* Inſtrumenta mechanica vim potentiæ reverà augere poſſint? Sive,

Utr. Motus perpetuus ſit poſſibilis?

Neg. *De Chales* Curſus Math. Tom. II. p. 185, 231. *Sturmii* Auctarium, p. 79. *Wilkins* Mathemat. Magick, B. ii. c. 9. *Rohaulti* Phyſ. P. i. c. 22. § 86. *Cheyne's* Philoſoph. Princ. p. 16. *Franc. de Lanis* Mag. Nat. & Art. T. I. P. iv. L. 3. *Jac. Ode* Phil. Nat. Princ. Tom. I. p. 100. Philoſ. Tranſact. N° 369. *Deſaguliers's* Courſe of Exper. Philoſ. Tom. I. p. 175. Compendious Syſtem of Nat. Philoſ. P. i. c. 10. § 21. *Harris's* Lexicon, and *Chambers's* Dictionary ad voc. PERPETUAL MOTION.

CA-

CAPUT VI.

QUÆSTIONES HYDROSTATICÆ.

I. *De* FLUIDIS *in genere.*

1. UTRUM Fluiditas oriatur ex inteſtino partium motu?

Aff. Carteſii Princ. Phil. P. ii. § 23, 54. *Rohaulti* Phyſ. P. i. c. 22. § 9. *Clerici* Phyſ. L. v. c. 15. *Regnault's* Philoſ. Converſ. V. I. p. 262. *Jac. Ode* Philoſ. Nat. Princ. Tom. I. p. 66. & Tom. II. p. 52. *Le Grand* Phil. Inſtit. P. vi. c. 11. *Franc. Bayle* Phyſ. Inſtit. Tom. I. Diſput. 8. § 43. *Franc. de Lanis* Mag. Nat. & Art. Tom. II. L. iv. c. 2. Prop. 16. *Philoſoph. Burgund.* Tom. II. p. 892.

Neg. Qui *Newtonianam* Philoſophiam amplectuntur, fluiditatem in eo conſtituunt quòd partes fluidi ſint exiguæ, læves & ſphæricæ, adeo ut impreſſioni cuicunque inæquali cedant, & cedendo facillimè inter ſe moveantur. *Gaſſendi* Opera, V. I. p. 402. *Newtoni* Princip. Math. L. ii. Prop. 19. p. 282. Ejuſdem Optic, p. 335. *Hook's* Poſth,

Poſth. Works, p. 191. *Cheyne*'s Philoſ. Princ. p. 59. *Graveſande* Elem. Math. L. ii. c. 1. *Muſſchenbroek*, Phyſ. Elem. P. ii. c. 1. § 605. *Boyle*'s Works abridg'd by *Shaw*, V. I. p. 313. V. II. p. 268. *Worſter*'s Princ. of Philoſ. p. 111. Compendious Syſtem of Nat. Phil. P. ii. c. 1. § 2. *Sturmii* Coll. Curioſ. P. ii. p. 75. *Ditton*'s New Law of Fluids. *Gulielmini* della Natura di fiumi. *Chambers*'s Diction. ad voc. FLUID.

2. *Utr.* Fluida conſiſtant ex particulis ſolidis?

Aff. *Keilii* Epiſt. ad *Gul. Cockburn*, Theor 3. In Oper. 4to, p. 624. Adjungas auctores ſupra citatos.

3. *Utr.* Fluida diſtingui debeant ab humidis?

Aff. *Marriotte*'s Hydroſtaticks, engliſh'd by *Deſaguliers*, p. 2. *Jac. Ode* Philoſ. Nat. Princ. Tom. I. p. 67. *Sturmii* Phyſic. Elect. Tom. I. p. 311. *Boyle*'s Hiſt. of Fluidity, P. i. S. 19.

Neg. Compendious Syſtem of Nat. Philoſ. P. ii. c. 1. p. 2. *Note.* *Muſſchenbroek* El. Phyſ. P. ii. c. 1. § 596. *Gaſſendi* Opera, Tom. I. p. 404.

4. *Utr.* Fluida gravitent in propriis locis? Sive,

Utr. Fluida ejuſdem generis in ſe invicem & in fluida diverſi generis gravitent?

Aff. *Boyle* in Paradox. Hydroſtat. Par. i, vi. or, *Shaw*'s Abridgment, V. II. p. 287, 306. *Walliſii* Opera Math. V. I. p. 1032. *Jac. Ode* Philoſ. Nat. Tom. I. p. 151. Tom. II. p. 56. *Newtoni* Princ. Math. L. ii. Pr. 36. *Graveſande* Elem. Phyſ. L. ii. c. 2. *Muſſchenbroek* Epit. Phyſ. P. ii. c. 2. *Worſter*'s Prin. of Philoſ. p. 112. *Philoſ. Burgund.* Tom. II. p. 831. *Boerhaave* Elem. Chem. V. I. p. 434. *Clarkii* Not. ad *Rohault*. Phyſ. P. i. c. 16. § 8. Compendious Syſtem of Nat. Philoſ. P. ii. c. 1. § 8. *Switzer*'s Univ. Syſt. of Water, B. ii. c. 12. *Sinclair*'s Hydroſt. paſſim. *Chambers*'s Dict. ad voc. FLUID.

Neg. *Carteſii* Princ. Phil. P. ii. § 56. *Mori* Enchir. Metaph. P. i. c. 13. *Le Grand* Phil. Inſt. P. vi. c. 11.

5. *Utr.* Fluidorum quieſcentium ſuperficies ſit Horizonti parallela?

Aff. *Archimed.* de inſident. humido, L. i. c. 2. *Muſſchenbroek* Elem. Phyſ. P. ii. c. 2. § 629. Compendious Syſtem of Nat. Phil.

Phil. P. ii. c. 1. § 7. *Hermanni* Phoronom. l. 2. § 303.

6. *Utr.* Fluida gravitent pro altitudine perpendiculari?

Conſulantur auctores ſupra citati.

7. *Utr.* Fluida premant infernè ſurſum?

Facile ſequitur ex quæſtione ſuperiori; itaque adeas auctores eoſdem.

8. *Utr.* Fluidorum preſſio lateralis æqualis ſit preſſioni eorundem perpendiculari? Sive,

Utr. Fluida premant ab omni parte æqualiter?

Aff. *Jac. Ode* Philoſ. Nat. Tom. I. p. 160. *Gulielmini* della Natura de fiumi. *Newtoni* Princ. L. ii. Prop. 19. Adjungas auctores ſupra citatos.

9. Corpora in fluidis immerſa tantam ſui ponderis partem amittant, quanta æquali fluidorum moli æquiparatur?

Conſulantur auctores ſupra citati; ſpeciatim verò *Jac. Ode* Philoſ. Nat. Tom. I. p. 163. *Graveſande* Elem. Phyſ. L. ii. c. 3. Compendious Syſtem of Natural Philoſ. P. ii. c. 2. § 6.

10. *Utr.* Corpora in fluidis cadentia ponderis ſui partem amittant?

Aff. *Michelottus* de ſeparatione fluidorum, Prænot. i. p. 44. Philoſ. Tranſact. N° 351. *Jones*'s Abridgment, Vol. IV. P. ii. p. 10. *Muſſchenbroek* Epit. Phyſ. Elem. P. i. § 199. P. ii. c. 10.

11. *Utr.* Corpora in fluidis cadentia ad æquabilem velocitatem conſtanter accedant?

Aff. *Newtoni* Princ. Math. L. ii. Prop. 40. *Worſter*'s Philoſ. p. 67. *Graveſande* Phyſ. Elem. L. ii. c. 6. n. 348.

12. *Utr.* Reſiſtentia fluidorum oriatur ex vi inertiæ & tenacitate fluidi?

Aff. *Newtoni* Optic. Qu. 20. p. 307. *Gul. Muys* Elem. Phyſ. p. 593.

13. *Utr.* Reſiſtentia fluidorum ſit in quadrata ratione velocitatum?

Aff. *Newtoni* Princ. L. ii. Prop. 4. Schol. *Pemberton*'s View, B. i. c. 4. p. 147. *Huygens* de la Peſanteur, p. 169. *Graveſande* Elem. Phyſ. L. ii. c. 11, 12. Compendious Syſtem of Nat. Phil. P. ii. c. 4. *Muſſchenbroek* El. Phyſ. P. ii. c. 10.

14. *Utr.* Retardatio corporum in fluidis motorum ſit in ratione inverſâ denſitatum & diametrorum?

Conſ. Auctores ſupra citati?

15. *Utr.* Velocitas aquæ ex vaſe profluentis ſit in ſubduplicatâ ratione altitudinis aquæ?

Aff. *Newtoni* Princ. L. ii. Prop. 26. *Graveſande* Elem. Phyſ. L. ii. c. 8. Compendious Syſtem of Nat. Philoſ. P. ii. c. 1. § 10, 11. *Muſſchenbroek* El. Phyſ. P. ii. c. 4. § 663. *Marriotte*'s Hydroſtat. engliſh'd by *Daſaguliers*, P. iii. Diſc. 1, 2. *Gulielminus* de aquâ fluenti, L. ii. c. 1. *Wolfii* Elem. Matheſ. Univ. Tom. I. p. 795. *De Chales* Curſus Math. Tom. II p. 197. *Torricellius* de motu projectil. p. 196. *Polenus* de motu aquæ, L. 1. § 30. *Caſtellus* de motu aquæ. *Chambers*'s Dict. ad voc. FLUID.

16. *Utr.* Fluida, quorum diverſa eſt gravitas ſpecifica, vi æquali per foramina expreſſa in obices reſiſtentes æquales edant effectus?

Aff. *Marriotte*'s Hydroſtaticks, p. 139. *Muſſchenbroek* Elem. Phyſ. P. ii. c. 8. § 720.

17. *Utr.* Attritus & reſiſtentia medii in causâ ſint, quare experimenta de fluidis proſilientibus ipſi Theoriæ haud juſte reſpondeant?

Aff. *Newtoni* Princ. Phil. L. ii. Prop. 36, 40. *Muſſchenbroek* El. Phyſ. P. ii. c. 4. § 675. c. 5. § 686. *Graveſande* Elem. Phyſ. P. ii. c. 11. *Worſter*'s Nat. Phil. p. 122.

18. *Utr.* Aſcenſus & ſuſpenſio liquorum in tubis capillaribus ſolvantur ab attractione annularis ſuperficiei ſuperioris contiguæ?

Hujuſce Hypotheſeôs inventio *Jurini* ingenio attribuenda eſt. Philoſ. Tranſact. N° 355. p. 739. *Jones's* Abridgment, V. I. P. i. p. 423. Compendious Syſt. of Nat. Ph. P. ii. Diſſert. 2. *Worſter*'s Nat. Phil. p. 19. *Chambers*'s Diction. ad voc. CAPILLARY TUBES. *Muſſchenbrock* Elem. Phyſ. P. i. c. 21. § 573.

Qui ante *Jurinum* florebant philoſophi hujuſce Phænomeni cauſam vel preſſuræ ætheris vel attractioni totius concavæ ſuperficiei adſcribere ſolebant.

I. Preſſuræ ætheris. *Bernoulli* de Gravit. Ætheris. *Boyle*'s Phyſico-Mechan. Exper. ix. *Sturmii* Coll. Curioſ. Tentam. 8.

Hooke's

Hooke's Microg. Obſ. 6. *Lewenhoek* Continuat. Arcan. Nat. Epiſt. 131. *Sinclaire* de Gravit.

II. Attractioni totius concavæ ſuperficiei. *Hawksbee*'s Phyſico-Mech. Exp. p. 98, 177. *Morgan*'s Phil. Princip. of Medicine, p. 88.

III. Nonnihil toti ſuperficiei ſuperiori attribuit *Muſſchenbroek* Phyſ. Exper. de tubis capillaribus, 4to.

IV. Omnes haſce cauſas conjunctas eſſe voluit *Regnault*. Philoſ. Converſ. V. I. p. p. 353. Conf. Memoires de l'Acad. A. D. 1714. p. 85, 86, 336, 339, 345. A. D. 1705. p. 245. A. D. 1714. p. 85. A. D. 1722. p. 336. A. D. 1724. p. 13, 101.

Vid. ſupra, Cap. i. Qu. 21, 22.

19. *Utr.* Aquæ aſcenſus inter duo plana vitrea in forma Curvæ Hyperbolicæ ſolvatur ab attractione?

Aff. Ditton's New Law of Fluids. Cui adjungas auctores ſupra citatos.

20. *Utr.* Preſſio per fluidum propagari poſſit ſecundum rectas lineas?

Aff. Carteſ. Dioptr. c. 1. § 3. *Le Grand* Inſtit. Phil. P. v. c. 15. § 3.

Neg. Newtoni Princ. L. ii. Prop. 41. p. 357.

II.

II. *De* AQUA.

21. *Utr.* Detur aqua pura & elementaris?

Aff. Boerhaave Elem. Chem. V. I. p. 627. *Muſſchenbroek* Elem. Phyſ. P. ii. c. 1. § 610.

Neg. Boyle de Orig. formarum, p. 259---273. Sceptical Chymiſt, P. ii. *Muſſchenbroek* El. Phyſ. P. ii. c. 11. § 778. qui priùs affirmaverit loc. cit.

V. ſupra, Cap. 2. Qu. 24.

22. *Utr.* Aqua in minores anguſtias comprimi poſſit?

Neg. Muſſchenbroek Elem. Phyſ. P. ii. c. 11. p. 214. *Franc. de Lanis* Mag. Nat. & Art. Tom. II. L. v. c. 1.

Ambig. Boyle's Hydroſtat. Paradox. or, his Works abridg'd by *Shaw*, V. I. p. 628. V. II. p. 290. *Jac. Ode* Phil. Nat. Princ. p. 54. *Verulamii* Nov. Organ. L. ii. n. 45. p. 390. *Shaw*'s Abridgment of *Bacon*'s Works, V. III. p. 56.

Aff. Compendious Syſtem of Nat. Phil. P. ii. c. 1. § 2.

23. *Utr.* Aqua contineat aërem?

Aff.

Aff. *Boerhaave* Elem. Chem. V. I. p. 512. *Jac.* *Ode* Phil. Nat. Tom. II. p. 54. *Boyle* abridg'd by *Shaw*, V. II. p. 425, 531. *Hamelii* Hiſt. Acad. L. iii. § 7. c. 1. *Franc. Bayle* Inſt. Phyſ. Tom II. p. 443. *Muſſchenbroek* Elem. Phyſ. P. ii. c. 11. § 791. *Hale*'s Stat. Eſſays, V. II. p. 275.

24. *Utr.* Aqua vi elaſticâ polleat?

Neg. *Boyle*'s Works abridg'd by *Shaw*, V. II. p. 425. *Jac.* *Ode* Philoſ. Nat. Princ. Tom. II. p. 54. *Senguerd.* Connub. Ration. & Exp. c. 8. p. 51.

Aff. *Schott.* Tech. Curioſ. L. ii. c. 22, 30. *De Stair* Phyſiol. Nov. Explor. ix. S. 2. p. 369. Vid. ſupra, Qu. 18.

25. *Utr.* Aqua in aquam gravitet?

Vid. ſupra, Qu. 4.

26. *Utr.* Aqua in aërem ſit convertibilis, & viciſſim aër in aquam?

Aff. *Ariſtot.* de Gen. & Corrupt. L. ii. c. 4. Lord *Bacon*'s Works abridg'd by *Shaw*, V. III. p. 33, 239, 559, 571.

Neg. *Varen.* Geogr. Gen. L. i. c. 19. Prop. 5. *Boyle*'s Phyſico-Mech. Exper. 22. *Boerhaave*'s Elem. Chem. V. I. *Jac.*

Ode Philoſ. Nat. Tom. II. p. 151. *Schotti* Tech. Curioſ. L. ii c. 24. *Franc. Bayle* Inſtit. Phyſ. Tom. II. p. 340.

27. *Utr.* Generalia æſtuum Phænomena ſolvantur ab attractione Solis & Lunæ?

Aff. Newtoni Princ. Math. L. iii. Prop. 24. *Gregor.* Aſtron. Phyſ. & Geometric. L. iv. Prop. 64, 65. *Halley*'s Theory of the Tides, Miſcell. Curioſ. V. I. p. 13. Philoſoph. Tranſact. N° 226. *Whiſtoni* Præl. Phyſ. Math. Lect. xxxvii. p. 306. *Domckii* Philoſ. *Newton.* Tom. II. p. 159. *Pemberton*'s View, p. 283. *Graveſande* Elem. Phyſ. L. iv. c. 19. *Clarkii* Not. ad *Rohault.* P. ii c. 29. *Worſter*'s Nat. Philoſ. p. 68. *Jac. Ode* Philoſ. Nat. P. ii. p. 61. *Chambers*'s Diction. and *Harris*'s Lexicon, ad voc. TIDES.

Neg. Referunt nonnulli ad motum, quo interceptus aër compreſſus â Lunâ aquam infernè poſitam urgeat. *Carteſ.* Princ. P. iv. S. 49. ſeqq. *Le Grand* Inſtit. Philoſ. P. vi. c. 12. *Rohault.* loc. citat. *Sturmius* in Phyſ. Elect. Tom. II. p. 250. *Franc. Bayle* Inſtit. Phyſ. Tom. II. p. 417. *Andala*, P. iv. Exerc. 9. *Clerici* Phyſ. L. ii. c. 8. §. 15. *Varen.* Geogr. Gen. L. i. c. 14. Prop. 11. *Philoſ. Burgund.* Tom. II. p. 1029.

p. 1029. *Regnault*'s Philoſ. Converſat. V. II. p. 85. *Buddei* Philoſ. Theor. P. iii. c. 1. § 29.

De veterum hypotheſibus vid. *Ariſtot.* de Meteor. Tract. viii. c. 8. *Plin.* Nat. Hiſt. L. ii. c. 97. *Plutarch.* de Plac. Philoſ. L. iii. c. 17. *Pomponius Mela* de ſitu Orbis, c. 1. *Varen.* Geogr. Gen. loc. cit. *Gaſſendi* Opera, Tom. II. L. i. c. 4. p. 27.

De fontibus, thermis, lacubus, fluviis, aquis marinis, mineralibus, & congelatis, vid. ſupra, Cap. 2. Qu. 31--44.

III. *De* AERE.

28. *Utr.* Aër in aërem & in alia corpora gravitet?

Aff. *Boyles*'s Hydroſtatical Paradoxes. His Phyſico-Mechan. Experiments. Memoirs for a General Hiſtory of the Air. Et paſſim in aliis tractatibus, quorum compendium vid. in *Shaw*'s Abridgment, V. I. p. 178. V. II. p. 286, 410, 448, 679--691. V. III. p. 50. *Newtoni* Prin. p. 512. *Graveſande* El. Phyſ. Tom. I. L. ii. c. 15. *Muſſchenbroek* Elem. Phyſ. Epit. P. ii. c. 22. § 1040. *Bernoulli* de Grav. Ætheris,

p. 1. Acta Erud. *Lipſ.* A. D. 1685. *Jac. Ode* Philoſ. Nat. Prin. P. ii. p. 71. *Boerhaave* Elem. Chem. V. I. p. 434. *Clerici* Phyſ. L. iii. c. 1. *Philoſ. Burgund.* V. II. p. 833. *Buddei* Philoſ. Theor. P. iii. c. 2. § 16. *Regnault*'s Phil. Converſ. V. I. Conv. 22. p. 307. *Homberg.* Hiſt. de l'Acad. 1687. p. 260, & paſſim. *Marriotte* de la Nature de l'Air. *Lowthorpe*'s Abridgment of Phil. Tranſ. V. III. p. 204. *Worſter*'s Nat. Phil. p. 144. *Wolfii* Elem. Aërometriæ, cap. 2. *Sinclair*'s Hydroſtat. *Hawksbee*'s Experiments; cum innumeris aliis, quotquot *ſcil.* vacuum aſſeruerunt.

Neg. Carteſiani omnes naturæ effectus, qui ex ſolo aëris pondere profluunt, ad metum vacui referre ſolent. Vix opus eſt eorum nomina recenſere. V. ſupra. Cap. 1. Qu. 14.

Conf. Mr. *Boyle*'s Examen of *Hobbes*'s Dial. Phyſicus de Natura aëris. Item, His Defence of the Doctrine of the Spring and Weight of the Air, againſt the Objections of *Franciſcus Linus.* Aliis objectionibus reſpondet in Hydroſt. Parad. i. Schol.

De natura & proprietatibus aëris eruditè diſſeruit *Chambers*, Diction. ad voc. AIR.

29. *Utr.* Aër ſit fluidum elaſticum?

In-

Ingens eſt auctorum numerus, quorum teſtimonio confirmatur pars quæſtionis affirmativa. Tædet toties repetitæ crambes. V. Qu. præced.

30. *Utr.* Aëris elaſticitas ſolvenda ſit a vi particularum repulſivâ?

Aff. *Newtoni* Princ. Math. L. ii. Prop. 23. Schol. Ejuſdem Optic. Qu. 30, 31. *Hale*'s Stat. Eſſays, V. I. c. 6. p. 212. *Graveſande* Philoſ. *Newton.* L. ii. c. 12. N° 475. *Worſter*'s Nat. Philoſ. p. 148. *Sturmii* Phyſ. Elect. Tom. I. p. 331. *Jac. Ode* Philoſ. Nat. Princ. P. i. p. 71.

Neg. Sunt, qui elaſticitatem aëris ex particulis, ſpiralium ad inſtar, intortis ſolvere ſuſcipiunt. *Philoſ. Burgund.* Tom. II. p. 807. *Boyle*'s Works abridg'd by *Shaw*, V. II. p. 410, 667. Conf. Compendious Syſt. of Nat. Philoſ. P. ii. c. 3. § 10. *Note.*

Vid. ſupra, Cap. 1. Qu. 23. & Cap. 2. Qu. 48.

31. *Utr.* Aëris denſitas ſit, ut pondus eundem comprimens?

Aff. *Newtoni* Princ. L. ii. Prop. 22. Compendious Syſtem of Nat. Philoſ. P. ii. c. 3. § 10. *Boyle*'s Tracts, paſſim. *Shaw*'s Abridgment, V. I. p. 669---673. *Jac.*

Ode

Ode Philoſ. Nat. P. ii. p. 128. *Marriotte* de nat. aëris, p. 29. De motu aquarum, p. 140. *Wolfii* Elem. Math. Univerſ. Tom. I. p. 744. *Mulleri* Colleg. Exper. P. i. c. 3. § 90. *Graveſande* Phyſ. Elem. L. ii. c. 13.

32. *Utr.* Aëris elaſticitas ſit in ratione denſitatis?

Aff. Conſ. auct. ſupra citat.

33. *Utr.* Deſtrui poſſit aëris elaſticitas?

Aff. Dr. *Hale*'s Statical Eſſays, V. I. p. 316. V. II. p. 278, 286, 321.

Neg. *Boerhaave* Elem. Chem. Tom. I. p. 452, 460. *Jac. Ode* Philoſ. Nat. P. ii. p. 125.

Ambig. *Boyle*'s Works abridg'd by *Shaw*, V. II. p. 429, 544.

34. *Utr.* Generari poſſit aër?

Aff. *Hale*'s Statical Eſſays, paſſim. *Newtoni* Opt. Qu. 31.

Ambig. *Boyle*'s Phyſico-Mech. Exp. *Shaw*'s Abridgment, V. I. p. 429--433.

35. *Utr.* Aër in aquam ſit convertibilis?

Vid. ſupra, Quæſt. 26.

36. *Utr.* Phænomena Mercurii in Barometro ſolvi poſſint ex gravitate & elaſticitate aëris?

Barometrum primus invenit *Torricellius*, adauxit *Boyleus*; & deinceps *Robbervallius* & *Hugenius*. Vid. *Chauvini* Lexicon Philoſoph. ad voc. BAROMETRUM.

Aff. *Halley*'s Diſcourſe on the Barometer, Miſcell. Curioſ. V. I. p. 81. Philoſ. Tranſact. Nº 181, 292, & paſſim. *Lowthorp*'s Abridgment, p. 20, & ſæpe alibi. Vid. *Jones*'s Indic. general. ad calcem, Vol. V. *Power*'s Experimental Philoſ. Book ii. *Pemberton*'s View, L. ii. c. 6. § 13. Act. Erud. *Lipſienſ.* A. D. 1696. p. 41. Supplem. Tom. I. p. 352. A. D. 1704. p. 538. *Boerhaave*'s Elem. Chem. V. I. p. 479. *Shaw*'s Abridgment of *Boyle*, V. II. p. 424. *Clarkii* Not. ad *Rohault*. P. i. c. 12. § 26, 41.

Neg. Dr. *Leigh*'s Nat. Hiſt. of *Lancaſhire*, p. 16. *Kircher* de re Muſicâ.

Sunt, qui volunt gravitatem aëris cauſam eſſe remotam, & elaſticitatem ejus proximam & principalem. *Senguerdi* Connub. Rat. & Exp. p. 211--216.

Carteſiani ad fugam vacui referunt. Vid. ſupra, Qu. 28.

De *Franc. Lini* Hypotheſi funiculari vid. *Powers* Exp. Philoſ. B. ii. c. 10. & ejuſdem confutat. ibid. c. 11.

De Methodo conſtruendi Barometri, vid. *Jac. Ode* Philoſ. Nat. V. I. p. 135.

De variis Barometrorum ſpeciebus, vid. *Shaw*'s Abridgment of *Boyle*, V. II. p. 425, 490--496. V. III. p. 42--45. *Hooke* in Præfat. ad Microgr. *Wolfii* Elem. Univ. Math. Tom. I. p. 760. *Senguerdi* Connub. Ration. & Exp. p. 210. Acta Eruditor. *Lipſienſ.* A. D. 1684. p. 26. *Hugen.* Opera, Tom. II. p. 276.

De variis eorum Phænomenis ad tempeſtatum mutationes diſcernendas, vid. *Jac. Ode* loc. cit. p. 137. *Boyle*'s Works abridg'd by *Shaw*, V. III. p. 48. *Franc. de Lanis* Mag. Nat. & Art. Tom. II. p. 284. *Sturmii* Coll. Curioſ. Auctar. P. i. p. 23. Philoſ. Tranſact. 1665, 1666.

Omnia ad hanc materiam ſpectantia copioſè tradidêre *Chambers*, & *Harris*, ad vocem BAROMETER.

37. *Utr.* Suſpenſio Mercurii in tubo vitreo ad ſexaginta aut ſeptuaginta unciarum altitudinem ſolvenda ſit ab attractione cohæſionis?

Aff.

Aff. *Newtoni* Opt. Qu. 31. *Jac. Ode* Philoſ. Nat. Tom. I. p. 63. *Clarkii* Not. ad *Rohault*. Phyſ. P. i. c. 12. § 29.

Neg. Ex preſſura ætheris ſolvitur ab *Hugenio*, Exper. Phyſ. 1, 2. in operibus 4to, p. 770, ſeqq. Philoſoph. Tranſact. N° 86. *Bernoullus* de Gravit. Ætheris, p. 127. *Walliſius* (qui aliquantulum tubi aſperitati attribuit) de motu, c. 14. Schol. Prop. 13. Philoſoph. Tranſact. N° 91. *Lowthorp*'s Abridgment, V. II. p. 23--28. *Brouncker*, ibid. *Hook*'s Poſth. Works, p. 365.

38. Hydroſcopii Phænomena ſolvantur ex humiditate & ſiccitate atmoſphæræ?

Aff. *Wolfii* Elem. Math. Univ. Tom. I. p. 782. *Sturmii* Coll. Cur. P. i. p. 124. *Shaw*'s Abridgment of *Boyle*, V. II. p. 375--382.

Methodum conficiendi Hydroſcopii docent *Jac. Ode* Phil. Nat. p. 158. *Stairius* in Phyſiol. Nov. Explor. 19. S. 4. *Franc. Bayle* Inſtit. Phyſ. Tom. II. p. 463. Aliique quos vid. apud *Ode* l. c. *Chambers*'s Dictionary, ad voc. HYGROMETER.

39. *Utr.* Bullarum vitrearum innatatio & immerſio ſolvantur ex gravitate & elaſticitate aëris?

Aff. *De Chales* Curſus Math. Tom. II. p. 166. *Sturmii* Colleg. Curioſ. Tom I. p. 28. Auctar. p. 49. *Regnault*'s Philoſ. Conv. V. I. p. 332. *Jac. Ode* Philoſ. Nat. P. i. p. 156. P. ii. p. 120. *Graveſande* Phyſ. Elem. L. ii. c. 15. n. 462. *Rohaulti* Phyſ. P. i. c. 22. § 47.

40. *Utr.* Antliarum & ſiphonum Phænomena ſolvantur ex gravitate aëris?

Aff. *Wallis*, Opera Math. V. I. p. 1053. *Boyle's* Phyſico-Mech. Exp. *Shaw*'s Abridgment, Vol. II. p. 300, 310, 446, 497. *Sturmii* Colleg. Curioſ. T. I. p. 1. *Marriotte*'s Hydroſtat. Engliſh Ed. P. ii. p. 53. *Worſter*'s Nat. Philoſ. p. 119. *Regnault*'s Philoſ. Conv. V. I. p. 350. *Graveſande* El. Phyſ. L. ii. c. 16.

Neg. *Carteſiani*; qui omnia hujuſmodi Phænomena ad metum vacui referunt. *Rohault*. Phyſ. P. i. c. 12.

Vid. ſupra, Cap. 1. Qu. 14.

41. *Utr.* Aëris elaſticitas in cauſa ſit, quare, ope Antliæ Pneumaticæ, aër e vaſe exhauriri poſſit?

Aff. *Graveſande* Phyſ. Elem. L. ii. c 14. *Jac. Ode* Philoſ. Nat. P. ii. p. 118. *Wolfii* Aërometr. c. 2. Math. Univ. V. I.

p. 735.

p. 735. *Hamelii* Philoſ. Vet. & Nov. Tom. IV. p. 234.

Antliæ Pneumaticæ deſcriptionem & uſum vid. apud *Boyle* (cujus ingenio inventionem hujus machinæ utiliſſimæ acceptam referimus) Phyſico-Mechan. Exp. *Shaw's* Abridgment, V. II. p. 407--412, 474, 555, 683--697. *Hawksbee's* Experiments. *Chambers's* Dict. & *Harris's* Lexic. ad voc. AIR-PUMP.

42. *Utr.* Recte ſtatuit HALLEIUS de campanâ urinatoriâ?

Aff. Philoſoph. Tranſact. N° 349. p. 492. *Jones's* Abridgment, V. IV. P. ii. p. 188. *Regnault's* Philoſ. Converſ. V. I. p. 305. *Jac. Ode* Philoſ. Nat. Princ. P. ii. p. 127. *Worſter's* Nat. Philoſ. p. 166. *Stairius* in Phyſiol. Nov. Explor. 19. S. 8. *Franc. de Lan.* Mag. Nat. & Art. Tom. II. L. v. c. 3. Art. 34.

Uſum hujuſmodi campanæ exponunt *Sturmius* in Coll. Cur. P. i. Tent. 1. & P. ii. Tent. 1. Philoſ. Elect. Tom. I. p. 325. *Mullerus* in Coll. Exper. P. i. c. 3. *Sinclair.* Hydroſtat. p. 77.

Objectionibus quibuſdam reſpondet *Boyleus* in Hydroſtat. Parad. i. Schol. *Shaw's* Abridgm. V. II. p. 290.

43. *Utr.* Aër ſit vehiculum ſoni?

Aff. *Hawksbee*'s Phyſico-Mechan. Exper. p. 129, 134. *Shaw*'s Abridgment of *Boyle*, V. II. p. 510. *Note.* Philoſ. Tranſ. N° 247, 313, 319. Miſcell. Cur. V. I. p. 121. *Lowthorp*'s Abridgment, V. I. p. 306. *Jones*'s Abridgm. Vol. IV. p. 396, 414. *Rohaulti* Phyſ. p. 1. c. 26. *Franc. de Lanis* Magiſt. Nat. & Art. Tom II. p. 410. *Pemberton*'s View, *&c.* p. 270. *Jac. Ode* Philoſ. Nat. P. i. p. 287. *Newtoni* Princ. Math. L. ii. Prop. 46. *Graveſande* Elem. Phyſ. L. ii. c. 17. Compendious Syſtem of Nat. Philoſ. P. ii. Diſſ. i. p. 47. *Regnault*'s Philoſ. Conv. V. II. p. 241. *Muſſchenbroek* Elem. Phyſ. P. ii. c. 23. *Clerici* Phyſ. L. v. c. 10. *Guerickius* de ſpatio vacuo, L. iii. c. 15. *Carteſ.* Princ. P. iv. § 194.

Neg. Sunt, qui ſonos per ætherem terreſtri atmoſphærâ ſubtiliorem propagari exiſtimant. *Sturmii* Colleg. Cur. P. i. Auct. p. 58. *Scotti* Techn. Curioſ. L. iii. c. 2.

Idem ſuſpicari videtur *Newtonus.* Princ. Math. ad calcem. Ejuſdem Optic. Qu. 18--23.

Quodcunque ad naturam ſonorum pertinet; breviter expoſuit *Chambers*, ad voc. SOUND.

44. *Utr.*

44. *Utr.* Soni, utcunque in tonis diverſi, propagari debeant eadem velocitate?

Aff. *Boyle*'s Works by *Shaw*, V. I. p. 145. V. II. p. 152. *Rohaulti* Phyſ. P. i. c. 26. § 34. Miſcell. Cur. V. I. p. 121. *Hawksbee*'s Exper. p. 262. *Pemberton*'s View, p. 282. *Lowthorpe*, *Jones*, *Graveſande*, *Muſſchenbroek*, *Clericus*, &c. ubi ſupra.

45. *Utr.* Echo ſit ſonus reflexus?

Aff. Miſcell. Curioſ. V. I. p. 121. *Sturmii* Phyſ. Elect. Tom. I. p. 661. *Jac. Ode* Philoſ. Nat. Tom. I. p. 296. *Kircher* de re muſicâ, L. ix. Compendious Syſtem of Nat. Philoſ. P. ii. Diſſ. 1.

De locis ob ſonos ſæpius iteratos celebribus, vid. *Jac. Ode* l. c. p. 297. *Plot*'s Hiſtory of *Oxfordſhire*. Acta Eruditor. *Lipſienſ.* 1692. p. 304. *Franc. de Lanis* Mag. Nat. & Art. Tom. II. p. 438. *Kircher* de re muſicâ, L. i. S 4. c. 3.

46. *Utr.* Tubæ Stenterophonicæ ratio ſolvatur ex ſoni reflectione?

Aff. *Kircher* de re muſicâ, L. ix. Par. iv. *Jac. Ode* Nat. Philoſ. P. i. p. 193. Compendious

pendious Syſtem of Nat. Philoſ. P. ii. Diſſert. i. p. 53. *Note.* *Sturmii* Coll. Curioſ. P. ii. Tentam. 8. Phyſ. Elect. Tom. I. p. 673, 676. *Lowthorp*'s Abridgment of Philoſ. Tranſact. V. I. p. 593. Miſcell. Cur. V. I. p. 121. *Chauvini* Lexicon, ad voc. SONUS.

47. *Utr.* Effectus TARANTULÆ morſûs a certa ſonorum modulatione ſanarii poſſint?

Vid. ſupra, Cap. 2. Qu. 16.

C A-

CAPUT VII.

QUÆSTIONES OPTICÆ.

I. *De* VISIONE *in genere.*

1. UTRUM ſtructura oculi cameræ obſcuræ, aut fictitio oculo ab HUGENIO deſcripto reſpondeat?

Aff. Hugenii Opuſc. Poſthuma, p. 112. Præcipui auctores, qui ſtructuram oculi deſcribunt, ſunt *Briggius* in Opthalmographia, c. 1. *Newton*'s Optic. B. i. Ax. 7. p. 11. *Rohaulti* Phyſ. P. i. c. 28--32. *Sturm.* Philoſ. Elect. Tom. I. Exerc. 9. *Niewentyt*'s Religious Philoſ. Contempl. 13. *Wolfii* Elem. Math. Univ. Tom. II. p. 6--8. *Regnault*'s Philoſ. Converſ. V. II. p. 324. *Graveſande* Phyſ. Elem. L. iii. c. 10. *Muſſchenbroek* El. Phyſ. Math. P. ii. c. 17. *Cowper*'s Anat. Introd. & Tab. xi. *Keil*'s Anat. c. 4. S. 4. *Cheſelden*'s Anatomy, L. iv. c. 4. *Chambers*'s Dict. ad voc. EYE.

2. *Utr.* Viſio oriatur ab imagine, quam radii lucis in retinam depingunt?

Ve-

Veteres Philoſophi in diverſas diſtrahuntur ſententias de cauſis viſionis. Quidam *Platonici* lucem ex oculis emicare arbitrati ſunt. *Epicurei* per idola corporea, *Peripatetici* per ſpecies intentionales (modo ab *Epicureis* haud multum abſimili) viſionem fieri docuerunt. Vid. *Chauvini* Lexicon, ad voc. VISIO. *Gaſſendi* Philoſoph. *Epic.* p. 128. *Jac. Ode* Philoſ. Nat. P. i. p. 240. *Lucret.* L. iv. ver. 160--218. *Gellius*, L. v. c. 16.

Aff. Plerique omnes Philoſophi recentiores. Vid. auctores in præcedent. Quæſt. citatos.

3. *Utr.* Magnitudo imaginis in retinam depictæ ſit, ut angulus opticus, *i. e.* quem ſubtendit res objecta ad oculum?

Aff. Keil. Introd. ad Aſtron. Lect. i. *Graveſande* Phyſ. Elem. L. iii. c. 11. *Wolfii* Elem. Math. Univ. Tom. II. c. 5. p. 38.

4. *Utr.* Motus corporis apparens æſtimetur ex motu imaginis in fundum oculi depictæ?

Aff. Keil, Graveſande, ubi ſupra. *Wolfii* Elem. Math. Univ. Tom. II. c. 8. p. 67.

Neg. Malebranche, Search after Truth, L. c. 8. § 2.

5. *Utr.*

5. *Utr.* Diſtantia objectorum haud longo intervallo ab oculo remotorum æſtimetur ab angulo, quem formant axes optici?

Aff. Carteſ. Dioptr. c. 6. § 13. & Epiſt. P. i. p. 229. *Jac. Ode* Philoſ. Nat. Princ. P. i. p. 244. *Graveſande* Phyſ. Elem. L. iii. c. 11. *Malebranche*, Search after Truth, L. i. c. 9. § 3. *De Chales* Curſus Math. Tom. II. p. 386. *Aguilon.* Opt. p. 155.

Neg. Ab uſu & experientia nos omnino diſtantias æſtimare vult *Berkleius.* New Theory of Viſion, § 1. Minute Philoſ. V. I. p. 223. *Cheſelden*'s Anatomy, Append. p. 349.

Plerique volunt diſtantias non ſenſu, ſed præjudiciis ſæpius æſtimari. *Clarkii* Not. ad *Rohaulti* Phyſ. P. i. c. 32. § 14. *Molineux* Dioptric. p. 113, 118. *De Chales* Curſus Math. Tom. II. p. 405.

Varias cauſas, ex quibus diſtantiæ æſtimari ſolent, recenſet *Jac. Ode* loc citat.

6. *Utr.* Magnitudo objecti æſtimetur a magnitudine imaginis in fundo oculi formatæ, unà cum præjudicata opinione de ejuſdem diſtantia?

Aff. *Graveſande* Elem. Phyſ. L. iii. c. 11. *Jac. Ode* Philoſ. Nat. P. i. p. 246. *Wolfii* Elem. Math. Univ. Tom. ii. c. 5. p. 38. *Muſſchenbroek* Elem. Phyſ. P. ii. c. 19. § 967.

Neg. *Berkley*'s New Theory of Viſion, § 53, *&c.*

7. *Utr.* Cauſa, quare objectum duobus oculis viſum ſimplex appareat, ſit concurſus axium opticorum in ipſo objecto?

Aff. *Rohaulti* Phyſ. P. i. c. 31. § 20. *Sturmii* Philoſ. Elect. Tom. II. Exerc. 5. c. 3. § 6. *Honor. Fabri* de Homine, L. ii. Prop. 93. L. vii. Prop. 52. p. 540. *Aguilon* Opt. p. 346. *Molyneux* Dioptric. p. 287. *De Chales* Curſus Math. Tom. II. p. 380. *Jac. Ode* Phil. Nat. Princ. P. i. p. 247. Acta Eruditor. An. 1683. p. 454. *Carteſ.* Dioptr. c. 6. § 86.

Neg. Sunt, qui cauſam repetunt a coalitione nervorum opticorum, priuſquam ad ſenſorium deferantur. *Galen.* de uſu Partium, L. x. c. 14. *Willis* de An. Brutor. c. 15. p. 143. *Bartholini* Anatom. Renov. p. 672. *Graveſande* Elem. Phyſ. L. iii. c. 10. p. 47. *Briggii* nova viſionis Theoria, p. 8.

Experientiæ attribuit *Berkleius.* New Theory of Viſion, § 108.

8. *Utr.*

8. *Utr.* Cauſa aſſignari poſſit, quare objecta erecta apparere debeant, quorum imago inverſa eſt in fundo oculi?

Aff. Carteſ. Dioptr. c. 6. § 86. *Molyneux* Dioptr. P. ii. c. 7. p. 289.

Ab uſu & experientiâ ducit *Berkleius.* New Theory of Viſion, § 91, *&c.*

Neg. Graveſande Phyſ. Elem. L. iii. c. 10. *Regnault*'s Philoſoph. Converſ. V. II. p. 327.

II. *De* Lumine & Coloribus.

9. *Utr.* Lumen ſit corpus?

Aff. Newtoni Princ. Math. L. ii. S. 8. p. 357. Ejuſdem Optice *paſſim. Graveſande* Phyſ. Elem. L. iii. c. 3. *Gaſſendi* Opera, V. I. S. 1. L. vi. c. 7. *Hooke*'s Poſth. Works, p. 115. *Worſter*'s Nat. Philoſ. p. 177. *Chambers*'s Dict. ad voc. LIGHT.

Neg. Lumen in preſſurâ materiæ ſubtilis conſiſtere volunt *Carteſiani. Carteſ.* Dioptr. c. 1. § 3. *Le Grand* Inſtit. Philoſ. P. v. c. 15. *De Chales* Curſus Math. V. II. p. 426. *Rohaulti* Phyſ. P. i. c. 27. § 15. *Burgundia* Philoſoph. T. II. p. 948. *Regnault*'s Philoſ. Converſ. V. II. p. 284.

10. *Utr.* Corpora & lumen in ſe mutuo agant?

Aff. *Newtoni* Opt. L. iii. p. 272. *Pemberton*'s View, p. 369. *Shaw*'s Abridgm. of *Boyle*'s Works, V. III. p. 265.

11. *Utr.* Corpora & lumen in ſe mutuo poſſint converti.

Aff. *Newtoni* Opt. p. 319. *Shaw*'s Abridgment of *Boyle*'s Works, V. II. p. 232.

12. *Utr.* Succeſſiva ſit luminis Propagatio?

Aff. *Newtoni* Optice, L. ii. S. 3. p. 236, 307. *Boyle*'s Works abridg'd by *Shaw*, V. II. p. 58. V. III. p. 186. *Lowthorp*'s Abridgment of Philoſ. Tranact. V. I. p. 40. *Bradley* de Stellarum fixarum Parallaxi. Philoſoph. Tranſact. Nº 406. *Keil* Introd. ad Aſtron. p. 223. *Muſſchenbroek.* Elem. Phyſ. p. 246. *Whiſtoni* Prælect. Aſtronom. p. 233. *Hook*'s Poſth. Works, p. 99.

Neg. *Carteſiani.* Vid. Libros ſupra citat.

13. *Utr.* Color ſit connata lucis proprietas?

Aff.

Aff. Newtoni Optic. *paſſim.* *Pemberton*'s View, *&c.* p. 324. *Lowthorp*'s Abridgment of Philoſ. Tranſact. V.I. p. 128, 173. *Graveſande* Phyſ. Elem. Math. L. iii. c. 19. *Jac. Ode* Philoſ. Nat. Princ. P. i. p. 273. *Clarkii* Not. ad *Rohault.* Phyſ. P. i. c. 27. § 52, 65. *Wolfii* Elem. Math. Univ. Tom. II. p. 34--37. *Muſſchenbroek* Elem. Phyſ. P. ii. c. 16. *Deſaguliers* in Philoſ. Tranſ. N° 348. *Marriotte* ſur les Couleurs, p. 207.

Neg. Alii colores ex diverſis luminis & umbræ confiniis, quibus radii lucis variè modificantur, oriri contendunt. *Carteſ.* Dioptr. c. 1. § 4. *Boyle* on Colours, P. i. c. 2. *Shaw*'s Abridgment, Vol. II. p. 2. *Rohault.* l. c. *Sturmii* Phyſ. Elect. Tom. I. p. 419.

14. *Utr.* Lumen conſtet ex radiis refrangibilitate & reflexibilitate diverſis?

Aff. Newtoni Optice, L. i. Prop. 1, 2, 3. p. 15. Ejuſdem Lectiones Opticæ, (opus Poſthumum) *paſſim.* Philoſoph. Tranſact. N° 84, 85, 88, 128. *Lowthorp*'s Abridgment of Philoſ. Tranſ. V. I. p. 128. Miſcell. Curioſ. V. I. p. 97. *Pemberton*'s View, p. 329. Adjungas libros ſupra citatos.

Neg.

Neg. Carteſiani. Vid ſupra. Et veterem hypotheſin nuper reſuſcitavit *Joh. Rizzetti* de luminis affectionibus; cujus doctrinam breviter expoſitam, vid. in the Preſent State of Republick of Letters, V. II. p. 255. Et refutatam, ibid. p. 423. Philoſoph. Tranſ. N° 406. p. 596.

15. *Utr.* Æther ſit vehiculum lucis?

Aff. Newtoni Optic. Qu. 17--23. Ejuſdem Princip. Math. ad calcem. *Worſter*'s Princ. of Philoſ. p. 178.

16. *Utr.* Colores compoſitione procreari poſſe recte doceat NEWTONUS?

Aff. Newtoni Optic. P. ii. Prop. 4. p. 108. Philoſoph. Tranſ. N° 96, 97. Unâ cum auctoribus, Quæſt. 12. affirmantibus.

17. *Utr.* Admittendæ ſint *Newtonianæ* vices facilioris reflexionis & facilioris tranſmiſſûs?

Aff. Newtoni Optic. p. 240. *Pemberton*'s View, p. 371. *Worſter*'s Nat. Philoſ. p. 230.

18. *Utr.* Corpora reflectant & refringant lumen diverſi modè unâ eâdemque vi, in diverſis circumſtantiis ſeſe exerente?

Aff.

Aff. *Newtoni* in Opt. p. 229. *Worſter*'s Nat. Philoſ. p. 227. *Clarkii* Not. ad *Rohault*. P. i. c. 27. § 37.

19. *Utr.* Magnitudo partium, ex quibus corpora naturalia conſtant, æſtimari poſſit ex illorum coloribus?

Aff. *Newtoni* Optic. p. 217. *Pemberton*'s View, p. 350.

20. *Utr.* Corporum naturalium partes minimæ ſint pellucidæ?

Aff. *Newtoni* Opt. p. 210. *Worſter*'s Nat. Philoſ. p. 247. *Graveſande* Elem. Phyſ. Math. L. iii. c. 23. *Pemberton*'s View, &c. p. 341.

21. *Utr.* Corporum tenuium pellucidorum colores rectè explicentur a NEWTONO?

Aff. *Newtoni* Optic. p. 160. *Pemberton*'s View, p. 344. *Graveſande* Elem. Phyſ. L. iii. p. 98.

22. *Utr.* Ea detur analogia inter permanentes corporum naturalium ac tenuium luminarum colores, quæ aſſignatur a NEWTONO?

Aff.

Aff. Newtoni Optic. p. 207. *Graveſande* Elem. Phyſ. L. iii. c. 23. *Pemberton*'s View, p. 348. *Clarkii* Not. ad *Rohaulti* Phyſic. P. i. c. 27. § 52.

23. *Utr.* Corporum nigrorum particulæ ſint admodum tenues & minutæ?

Aff. Newtoni Optice. *Rohaulti* Phyſ. P. i. c. 27. § 57, 59.

24. *Utr.* Colorum priſmatibus exhibitorum rationem recte explicet NEWTONUS?

Aff. Newtoni Opt. L. i. P. ii. Prop. 8. p. 134. *Clarkii* Not. ad *Rohault.* Phyſ. P. i. c. 27. § 57.

25. *Utr.* Recte ſtatuit NEWTONUS de inflexionibus radiorum luminis, & coloribus inde generatis?

Aff. Newtoni Opt. L. iii. p. 272--293. *Graveſande* Elem. Phyſ. L. iii. c. 5.

26. *Utr.* Cryſtalli Iſlandicæ refractiones ſingularem quandam luminis proprietatem oſtendant ab aliis hactenus cognitis diverſam?

Aff. Newtoni Opt. Qu. 17. p. 299.

27. *Utr.*

27. *Utr.* Pori tranſverſarii per ſe ſufficiant ad Diaphaneïtatem conſtituendam? Sive,

Utr. Cauſa opacitatis vera ſit, quòd meatus, per quos lumen tranſire poſſit, obturentur?

Aff. Carteſiani. Rohault. Phyſ. P. i. c. 27. § 15. *Clerici* Phyſ, L. v. c. 8. Philoſ. Converſ. V. II. p. 299.

Neg. Newtoni Opt. B. i, Prop. 10. *Pemberton*'s View, p. 344. *Clarkii* Not. ad *Rohault.* loc. cit. *Graveſande* Elem. Phyſ. L. iii. c. 17.

III. Quæstiones Dioptricæ.

28. *Utr.* Sinus incidentiæ cujuſque radii ſeorſim ad ſinum refractionis ſuæ in datâ ratione eſſe debeat?

Aff. Newtoni Opt. L. i. Prop. 6. p. 61. *Graveſande* Elem. Phyſ. L. iii c. 6. n. 639. *Muſſchenbroek* El. Phyſ. § 921.

29. *Utr.* Ratio reddi poſſit, cur radii luminis ex medio rariori in denſius oblique incidentes ad perpendiculum, & ex denſiori in rarius à perpendiculo refringantur?

Cauſam repetunt *Carteſiani* ex eo quod lumen in denſiori medio celerius moveatur, quàm in rariori. *Carteſ.* Dioptr. c. 2. § 9.

Attractioni attribuunt *Newtoniani*. *Newton.* Optic. L. ii. P. iii. Prop. 9, 10. p. 229. *Clarkii* Not. ad *Rohault.* P. i. c. 27. § 37. *Muſſchenbroek* Elem. Phyſ. § 888. *Graveſande* Phyſ. L. iii. c. 6.

Aliæ cauſæ aſſignantur à *Leibnitzio.* Acta Erud. A. D. 1682. p. 188. & *Bernoullio.* Acta Erud. A. D. 1701. p. 19. & *Hamelio* in *Philoſ. Burgund.* Tom. II. p. 958.

30. *Utr.* Ratio vitrorum utrinque planorum ex principiis opticis explicari poſſit?

Aff. *Honor. Fabri* Synopſ. Opt. p. 110. *Molyneux* Dioptr. p. 110. *Gregory's* Dioptr. Prop. 11. *Graveſande* Elem. Phyſ. L. iii. c. 11. *Jac. Ode* Philoſ. Nat. P. i. p. 265.

31. *Utr.* Ratio Lentium utrinque convexarum ex principiis opticis explicari poſſit?

Aff. *Molyneux* Dioptr. p. 112---142. *Hugen.* Op. Poſth. p. 125, 146, 155, *&c.* *Rohaulti* Phyſ. L. i. c. 27. § 42. *Graveſande* Elem. Phyſ. L. iii. c. 11. *Worſter's* Nat. Phil. p. 196. *Jac. Ode* Phil. Nat. P. i. p. 267. *Wolfii* Elem. Math. Univ.

Tom.

Tom. II. p. 231, 242, & ſeqq. *Gregory*'s Dioptr. Prop. 14, *&c.*

32. *Utr.* Ratio Lentium utrinque concavarum ex principiis opticis explicari poſſit?

Aff. *Molyneux* Dioptr. p. 142, 154. *Hugen.* Op. Poſth. p. 130, 153. *Graveſande* loc. cit. *Worſter*'s Philoſ. p. 208. *Rohaulti* Phyſ. L. i. c. 27. § 44. *Jac. Ode* Philoſ. Nat. P. i. p. 268.

33. *Utr.* Vitri multiplici facie inciſi ratio ex principiis opticis explicari poſſit?

Aff. *Rohaulti* Phyſ. L. i. c. 27. § 45.

34. *Utr.* Ratio Microſcopiorum ex principiis opticis explicari poſſit?

Aff. *Molyneux* Dioptr. p. 180. *Hugenii* Op. Poſth. p. 221---233. *De Chales* Curſus Math. Tom. II. p. 673, 689. *Graveſande* El. Phyſ. L. iii. c. 12. *Rohaulti* Phyſ. L. i. c. 33. § 15. *Jac. Ode* Philoſ. Nat. P. i. p. 272. *Wolfii* Elem. Math. Univ. Tom. II. p. 285---300. *Muſſchenbroek* Elem. Phyſ. § 1027, 1028.

35. *Utr.* Ratio Teleſcopiorum ex principiis opticis explicari poſſit?

Aff. *Molineux* Dioptr. p. 156---180, 203---207. *Hugen*. Oper. Poſt. p. 167---196. *De Chales* Curſus Math. Tom. II, p. 667---672. *Graveſande* Elem. Phyſ. L. iii. c. 12. Philoſ. Tranſ. A. D. 1665. *Lowthorp*'s Abridgment, V. I. p. 189, 191, 193. *Hevelii* Machina cœleſtis, Tom. I. c. 21. *Gregory*"s Dioptricks. *Newtoni* Optic. L. i. P. i. p. 85. *Hartſoecker* Tent. Dioptr. c. 9.

De inventione Teleſcopii, vid. *Paſchius* de inventis novo-antiq. p. 523. *Borellus* de invent. Teleſc. c. 11---14.

36. *Utr*. Ratio explicari poſſit, quomodo myopum & presbytarum oculorum vitiis à lentibus ſuccurrendum eſt?

Aff. *Molineux* Dioptr. p. 108. *De Chales* Curſus Math. Tom II. p. 361---370. *Rohaulti* Phyſ. P. i. c. 33. § 18. *Jac. Ode* Philoſ. Nat. P. i. p. 263. *Kepler*. Dioptr. Prop. 64. *De la Hire* in Act. Erud. A. D. 1695. p. 497---501. *Wolfii* Elem. Math. Univ. Tom. II. p. 72---83. *Sturmii* Philoſ. Elect. Tom. II. Exerc. 10. *Hamberg*. Diſſert. Acad. iv. *Graveſande* Elem. Phyſ. L. iii. c. 11.

37. *Utr.* Conſpicilla tubulata, quo minus omnibus numeris perfecta conſtrui queant, faciat diverſa radiorum refrangibilitas?

Aff. *Newtoni* Opt. L. i. Prop 7. p. 66. Ejuſdem Lect. Optic. P. i. S. 2. § 29. *Hugenii* Op. Poſt. p. 202. *Clarkii* Not. ad *Rohault.* Phyſ. P. i. c. 33. § 28. *Pemberton*'s View of Sir *Iſ. Newton*'s Phil. p. 390. *Lowthorp*'s Abridgment of Philoſ. Tranſ. V. I. p. 189.

IV. QUÆSTIONES CATOPTRICÆ.

38. *Utr.* Reflectio luminis oriatur ex impactione ejus in ſolidas corporum particulas?

Aff. *Carteſ.* Dioptr. c. 2. § 1. *Rohaulti* Phyſ. P. i. c. 27. § 35.

Neg. *Newtoni* Optic. L. ii. P. iii. Prop. 8. *Pemberton*'s View, p. 339. *Clarkii* Not. ad *Rohault.* loc. cit. *Worſter*'s Nat. Philoſ. p. 226. *Muſſchenbroek*, § 878. *Graveſande* Phyſ. L. iii. c. 13.

39. *Utr.* Angulus reflectionis angulo incidentiæ æqualis eſſe debeat?

Aff.

Aff. *Carteſ.* Dioptr. c. 2. § 3. *Philoſ.* *Burgund.* Tom. II. p. 954. *Rohaulti* Phyſ. P. i. c. 15. § 3. *Jac. Ode* Philoſ. Nat. P. i. p. 257. *Gregory*'s Catoptrics, Prop. 1.

40. *Utr.* Speculi plani proprietates ex principiis opticis explicari poſſint?

Aff. *Rohaulti* Phyſ. P. i. c. 34. *De Chales* Curſus Math. Tom. II. p. 542--554. *Tacqueti* Catoptr. L. iii. *Franc. de Laniss* Mag. Nat. & Art. Tom. II. p. 140. *Wolfii* Elem. Math. Univ. Tom. II. p. 125, *&c.* *Hamelii* Hiſtor. Acad. Reg. p. 144, 157, 183. Acta Eruditor. *Lipſienſ.* A. D. 1707. p. 139. *Jac. Ode* Philoſ. Nat. P. i. p. 257. *Graveſande* Elem. Phyſ. L. iii. c. 14. *Worſter*'s Nat. Philoſ. p. 232. *Chambers*'s Dict. ad voc. REFLECTION.

41. *Utr.* Proprietates ſpeculi convexi ex principiis opticis explicari poſſint?

Ne tædio eſſemus & lectoribus & nobis repetendo, conſ. ſcriptores ſupra citatos.

42. *Utr.* Proprietates ſpeculi concavi ex principiis opticis explicari poſſint?

Vid. Auctores ubi ſupra.

43. *Utr.*

43. *Utr.* Teleſcopia catoptrica * ſint ad uſus aſtronomicos dioptricis accommodatiora?

Præclarum hoc inſtrumentum à NEWTONI inventione originem duxit. *Newtoni* Optic. L. i. Prop. 8. p. 90. *Lowthorp*'s Abridgment of Philoſ. V. I. p. 197, 200, 210. *Pemberton*'s View, B. iii. c. 5. p. 393. *Chambers*'s Diction. ad voc. TELESCOPE.

44. *Utr.* Multiplex lucernæ imago in ſpeculo plano apparens ſolvi poſſit ex principiis opticis?

Cùm nemo Philoſophorum, quem ſcio ‡, hoc Phænomenon explicuit, ejus ſolutionem reddere conabor.

Phænomenon ſic ſe habet. Ponatur lucerna in tali ſitu ut ejus radii reflectantur ad oculum ſpectatoris ad angulum obliquum. Spectator obſervabit duas, tres, vel quatuor, aliquando etiam quinque, ſex vel plures imagines in ſpeculo, quarum una eſt maximè vivida, cæteræque minùs minùſque lu-

* Anglicè, *Reflecting Teleſcopes*.

‡ Nuper mihi narravit vir doctus hoc Phænomenon explicatum dediſſe *De La Hire* in Memoires de l'Acad. A. D. 1669. Sed mihi librum videre non contigit.

cidæ,

cidæ, adeo ut ultima ſit valdè languida & imperfecta.

Facilè patet duas imagines reflecti à duabus vitri ſuperficiebus, ſcil. maximè vividam ab ulteriori, proximam in ſplendoris gradu à citeriori. Et cùm in unoquoque radiorum ex uno in alterum medium tranſitu non omnis radiorum copia vel reflectitur, vel tranſmittitur (utpote quidam ſint in *vice facilioris reflexionis*, quidam in *vice facilioris tranſmiſsûs* *) ideo ſequitur radios, qui ſunt in *vice facilioris reflexionis* cùm egreſſuri ſunt è citeriori vitri ſuperficie, iterum reflecti debere, adeoque poſt tres reflexiones emergere, & ad oculum pervenire, tertiamque lucernæ imaginem depingere. Eodem modo alii erunt radii, quorum nonnulli non niſi poſt quintam reflexionem ad vitri ſuperficiem pervenient in *vice facilioris tranſmiſsûs*, unde quarta imago depingetur. Alii iterum erunt, quorum nonnulli non niſi poſt ſeptimam reflexionem emergent, & quintam efficient imaginem, & ſic deinceps uſque dum omnes vel reflectantur vel diſpergantur radii.

Hanc ſolutionem tanquam ex conjecturâ ſolum propono. Non enim ſufficiens da-

* Vid. ſupra, Qu. 17.

tur

tur experimentorum copia, ut firmo pede ſtabiliatur hæc hypotheſis; mihi vero videtur omnia in hâc re Phænomena, quæ hactenus obſervata fuerunt, juxta *Theoriam Newtonianam* ſatis apte explicare.

V. QUÆSTIONES MISCELLANEÆ OPTICÆ.

45. *Utr.* Iridis primariæ Phænomena ſolvantur ex diversâ radiorum refrangibilitate?

Aff. *Newtoni* Opt. p. 139. *Pemberton's* View, p. 394. *Clarkii* Not. ad *Rohault.* Phyſ. P. iii. c. 17. *Boyle's* Works abridg'd by *Shaw*, V. I. p. 143. *Jac. Ode* Philoſ. Nat. P. ii. p. 180. *Hamberg.* Diſſert. Acad. iii. *Graveſande* Elem. Phyſic. L. iii. c. 21. *Halley* on the Rainbow, Philoſ. Tranſact. Nº 267. *Chambers's* Diction. ad voc. RAINBOW.

Neg. Repetit *Carteſius* varietatem colorum Iridis a globulis ſecundi elementi circa centrum ſuum gyrantibus. *Carteſ.* Meteor. c. 8. *Rohault* l. c. *Philoſ. Burgund.* Tom. I. p. 1058.

Vult *Gaſſendus* varietatem colorum a lucis ad nos reflectione cum variæ umbræ admiſtione ducere. *Gaſſendi* Opera, T. II. L.

ii. c. 6. *Chauvini* Lexicon, ad vocem IRIS.

46. *Utr.* Iridis ſecundariæ internæ Phænomena explicari poſſint ex principiis opticis?

Aff. Pemberton's View, p. 401. Philoſoph. Tranſ. N° 375.

De Parheliis, Paraſelenis & ejuſmodi Meteoris, vid. ſupra, Cap. 4. Qu. 4.

47. *Utr.* Præjudicio attribuendum ſit, quod res objecta per lentem convexam viſa valde propinqua videatur?

Aff. Clarkii Not. ad *Rohault*. Phyſ. P. i. c. 33. § 7. *Berkley's* New Theory of Viſion, § 30--40.

Ambig. Barrow Lect. Opt. xviii. ſub finem. *Tacquet* Catoptr. L. iii. Prop. 22. *Molyneux* Dioptr. P. i. Prop. 31. S. 9.

48. *Utr.* Apparens oceani aſcenſus a litore ſolvi poſſit ex principiis opticis?

Aff. Varen. Geogr. Gener. L. iii. c. 13. Prop. 3.

49. *Utr.* Crepuſculi Phænomena ſolvi poſſint ex principiis opticis?

Aff. Varen. Geograph. Gen. L. iii. c. 19.

19. Prop. 36, 37, 38. *Keil.* Aſtronom. L. 20.

50. *Utr.* Cameræ obſcuræ Phænomena ex principiis opticis ſolvi poſſint?

Aff. *Sturmii* Coll. Curioſ. p. 7---14. Auctar. p. 9---11. *Honorat. Fabri* Synopſ. Opt. p. 34. *De Chales* Curſ. Math. Tom. II. p. 345. *Molyneux* Dioptr. p. 36. *Jac. Ode* Philoſ. Nat. P. i. p. 233. *Wolfii* Elem. Math. Tom. II. p. 243. *Graveſande* Elem. Phyſ. L. iii. c. 10.

51. *Utr.* Laternæ magicæ Phænomena ex principiis opticis ſolvi poſſint?

Aff. *Wolfii* Math. Elem. Tom. II. p. 305. *Graveſande* Elem. Phyſ. L. iii. c. 16. *Jac. Ode* Philoſ. Nat. P. i. p. 235.

52. *Utr.* Lunæ Horizontalis Phænomena ex principiis opticis ſolvi poſſint?

Varias Hypotheſes excogitarunt Philoſophorum ingenia, ut hujuſce Phænomeni ſolutionem reddant.

I. Principem locum obtinet Hypotheſis *Carteſiana*; quæ in eo fundatur, quod occurrant inter Lunam juxta Horizontem verſatam & oculos noſtros diverſa objecta, quæ judicium de diſtantia melius informant; unde

longius diſſita videtur, & ea propter major. *Carteſ.* Dioptr. c. 6. §21. *Malebranche*'s Search after Truth, B. ii. p. 263. *Rohaulti* Phyſ. P. i. c. 32. §23. *Graveſande* El. Phyſ. L. iii. c. 11. *Muſſchenbroek* Epit. Phyſ. §977. Eidem adſentitur & pleniùs explicat *Walliſius*. Philoſoph. Tranſact. N° 187. *Lowthorp*'s Abridgment, V. I. p. 225. Miſcellan. Curioſ. V. II. p. 263.

II. Ex dilatatione pupillæ oculi ob debiliorem lunæ horizontalis lucem ſolvit *Gaſſendus*. Vid. Epiſtolas quatuor in Oper. Tom. III. *Scheiner* de Oculo.

III. Cauſam ex eo oriri vult *Hobbeſius*, quod cum oculus ſit in ſuperficie non in centro terræ, magis diſtet ab Horizonte, quam à ſummo culmine. *Hobbs* de Homine, c. 3. §7.

IV. Solvit *Ricciolus* ex eo quod angulus horizontalis major ſit verticali. *Almag.* Nov. L. x. S. 6.

V. Sunt, qui refractioni attribuunt. *Roger. Bacon*, Perſpect. P. iii. diſt. 2. c. 4. *Petzani* Perſpect. commun. L. iii. Prop. 12. Aliique quos recenſet *Ricciolus* in loc. citat.

Omnes haſce ſolutiones ad examen revocat, & funditus evertit *Molyneuxius* in Act. Philoſ. in loc ſupra citat.

CA-

CAPUT VIII.

QUÆSTIONES ASTRONOMICÆ.

I. *De* SYSTEMATE MUNDANO.

1. UTRUM ſyſtema *Copernicanum* ſit verum mundi ſyſtema?

Aff. *Nic. Copernicus* in Revol. Orb. Cœleſt. L. i. c. 10. *Galilæi* Syſtema Coſmicum, Dial. 3. *Le Grand* Inſtit. Phil. P. vi. *Varenii* Geograph. L. i. c. 5. *Keil.* Introd. ad Aſtronom. L. iii, iv. *Derham*'s Aſtro-Theology. *Graveſande* Elem. Phyſ. L. iv. *Whiſtoni* Prælect. Aſtron. & (ut verbo complectar) fere quotquot inter recentiores & melioris notæ Philoſophos numerantur.

Tria notiſſima ſyſtemata, ſcil. *Copernici*, *Ptolemæi*, & *Tychonis* exponunt *Riccioli* Almageſt. Nov. *Gaſſendi* Aſtron. *Carteſ.* Princ. P. iii. *Rohaulti* Phyſ. P. ii. *Jac. Ode* Philoſ. Nat. P. ii. p. 245. *Buddei* Philoſ. Theor. P. iv. c. 1. *Philoſ. Burgund.* Tom. II. p. 938. *Wells*'s Aſtronomy.

2. *Utr.*

2. *Utr.* In ſyſtema mundanum admittendi ſint orbes ſolidi & epicycli?

Aff. Qui *Ptolemæi* ſyſtema tuentur. Vid. *Gaſſendi* Aſtron. L. ii. c. 3. alioſque ſupra citat.

3. *Utr.* Planetæ in orbitis deferantur ope materiæ fluidæ in modum vorticis circumgyrantis?

Aff. *Carteſii* Princ. P. iii. § 31. & *paſſim*. Ejuſdem Epiſt. *paſſim*. *Senguerdi* Philoſ. Nat. P. ii. c. 2. § 6. *Andala*, P. iii. Exerc. 11. *Sturmii* Philoſ. Elect. Tom. II. p. 1024. *Rohaulti* Phyſ. P. ii. c. 25.

Neg. *Newtoni* Princ. Math. L. ii. S. 9. Prop. 51, 52, 53. cum ſchol. p. 384. & p. 481, 526. Ejuſdem Optic. Qu. ult. *Pemberton*'s View, B. ii. c. 1. p. 167. *Clarkii* Not. ad *Rohault*. loc. cit. *Gregorii* Elem. Aſtron. L. i. S. 8, 9. *Whiſtoni* Præl. Aſtron. Lect. xxiv. *Graveſande* Elem. Phyſ. L. iv. P. ii. *Clerici* Phyſ. L. i. c. 6. *Jac. Ode* Philoſ. Nat. p. 258.

Utramque Theoriam breviter exponit M. *Maupertuis* de figuris corporum cœleſtium. Vid. *Keil*'s Remarks on *Burnet*'s Theory, 2d Edit. Diſſertat. ad calcem.

4. *Utr.* Planetæ retineantur in orbitis vi gravitatis & motu projectili?

Aff. *Newtoni* Princ. L. iii. *Gregorii* Aſtron. L. i. *Pemberton*'s View, L. ii. c. 2. *Domckii* Philoſ. *Newton.* Tom. II. p. 37. *Whiſton*'s Theory of the Earth, B. i. Ejuſdem Prælect. Phyſ. Math. Lect. 12. *Cheyne*'s Philoſ. Princ. c. 2. *Derham*'s Aſtro-Theol. B. vi. Adjungas auctores ſupra citat.

Neg. Qui affirmant in Qu. præc.

5. *Utr.* Planetæ ſint habitabiles?

Aff. *Derham*'s Aſtro-Theology, Prelim. Diſc. *Huygen*'s Planetary Worlds; vel *Coſmotheoros* in Oper. 4to, p. 645. *Fontenelle*'s Plurality of Worlds.

Neg. Reflections on Learning, ch. 8.

De Lunâ habitabili vid. porro, Qu. 13.

6. *Utr.* Planetarum ſtationes & regreſſiones ex motu apparenti ſolvantur?

Aff. *Keil.* Aſtronom. L. 15, 16. *Le Grand* Inſtit. Phil. P. v. c. 19.

Neg. Qui Epicyclos tuentur. Vid. ſupra, Qu. 2.

7. *Utr.* Planetæ moveantur in ellipſibus umbilicum habentibus in centro ſolis?

Coper-

Copernicus Planetas in circulis moveri ſtatuit. Vid. ſupra, Qu. 1.

Keplerus eorum orbitas ellypticas eſſe invenit.

Newtonus illorum motuum cauſas phyſicas primus explicuit. Princ. Math. L. iii. Prop. 13. Conf. Auctores citat. in Qu. 3, 4.

II. *De* SOLE.

8. *Utr.* Motus ſolis circa proprium axem ex motu ejus macularum colligi poſſit?

Aff. Riccioli Almag. Nov. Tom. I. p. 98. *Keil.* Aſtronom. Lect. v. *Le Grand* Inſtit. Philoſ. P. v. c. 16. *Jac. Ode* Philoſ. Nat. Princ. P. ii. p. 5.

Neg. Sunt, qui maculas volunt eſſe Planetas à ſole haud multum remotos. *Guerickii* Syſt. Mundi, L. i. c. 13. *Schotti* Præluſ. in Itin. *Kircheri,* p. 184.

9. *Utr.* Maculæ ſolares ſint nubes ex concretis ſolis exhalationibus conflatæ?

Aff. Renaldinus in Act. Erud. Suppl. Tom. II. p. 451. *Hooke* in Act. Erud. A. D. 1707. p. 151. *Wolfii* Elem. Math. Univ. Tom. II. p. 461. Aliique quos memorat *Schottus* in loc. cit.

10. *Utr.*

10. *Utr.* Soli competit atmoſphæra?
Aff. *Gregorii* Aſtron. L. v. *Newtoni* Princ. p. 514. Philoſ. Tranſact. N° 431. p. 255. Vid. infra, Qu. 31.

11. *Utr.* Eclipſis ſolaris oriatur ab interpoſitione Lunæ?
Aff. *Whiſton.* Prælect. Aſtron. *Wolf.* El. Math. Univ. Tom. II. p. 579. Cæterique qui Aſtronomiam tractârunt.

12. *Utr.* Optima methodus inveniendi ſolis diſtantiam ſit à Lunâ dichotomâ?
Aff. *Whiſtoni* Prælect. Aſtron. p. 67. *Wolfii* Elem. Math. Tom. II.
Neg. Alia methodus à Parallaxi Martis petita eſt, quam meliorem æſtimat *Keil.* Aſtronom. Lect. 22. Utramque exponit *Jac. Ode* Philoſ. Nat. P. ii. p. 13.

III. *De* LUNA.

13. *Utr.* Luna ſit habitabilis?
Aff. *Derham*'s Aſtro-Theol. Prelim. Diſc. p. 49. *Bentley*'s Sermons at *Boyle*'s Lecture, Serm. viii. *Wolfii* El. Math. Tom. II. p. 472. *Paſchius* de Novo-Invent. p. 517. *Jac. Ode* Phil. Nat. P. ii. p. 198.

Ambig. Sturmii Phyſ. Elect. Tom. II. p. 894. Reflections on Learning, c. 8.

14. *Utr.* Luna circa proprium axem revolvatur?

Aff. Jac. Ode Philoſ. Nat. P. ii. p. 201. *Keil.* Aſtron. Lect. 5.

15. *Utr.* Luna Atmoſphærâ circumdetur?

Aff. Wolfii Elem. Math. Tom. II. p. 465. *Jac. Ode* Philoſ Nat. P. ii. p. 195. *Derham's* Aſtro-Theol. Prelim. Diſc. p. 49. *Chambers's* Dictionary, ad voc. MOON.

Neg. Hugen. Coſmoth. L. ii. p. 114. Acta Eruditor. A. D. 1706. p. 33. *Keil.* Aſtron. L. x.

16. *Utr.* Lunæ partes obſcuriores ſint aquæ?

Aff. Hevelii Selenogr. p. 150. *Galilæi* Syſt. Coſm. Dial. 1. p. 88. *Sturmii* Phyſ. El. T. II. p. 56. *Derham's* Aſtro-Theol. loc. cit. *Gaſſendi* Phyſ. L. iv. S. 2. c. 3. *Caſſinus* apud *Fontenelle* de Mund. Plural. p. 42.

Neg. Hugen. Coſmoth. p. 114. *Keil.* Introd. ad Aſtron. Lect. 10. p. 117.

17. *Utr.* Lunæ cum Sole ferè conjunctæ lux ſecundaria â terrâ proveniat?

Aff. *Riccioli* Almag. Nov. Tom. I. p. 200. *Rohaulti* Phyſ. P. ii. p. 214. *De Chales* Curſus Math. T. III. p. 367. *Keil.* Aſtronom. Lect. ix. *Carteſ.* Princ. P. iii. § 12. *Jac. Ode* Philoſ. Nat. P. ii. p. 206. *Hevelius* in Act. Eruditor. A. D. 1682. p. 109.

18. *Utr.* Luna deficiens atmoſphæræ terreſtris umbrâ obſcuretur?

Aff. *Whiſtoni* Prælect. Aſtron. p. 140. *Tacquet* Aſtron. L. iv. n. 17. *Riccioli* Almag. Nov. T. I. L. v. p. 305. *Kepleri* Aſtron. Opt. p. 268. *Jac. Ode* Philoſ. Nat. P. ii. p. 205.

19. *Utr.* Motus Lunæ libratorius ex ipſius motu diurno oriatur?

Aff. *Newtoni* Princ. L. iii. Prop. 16. *Keil.* Introd. ad Aſtron. L. x. *Riccioli* Almag. Nov. Tom. I. p. 205. *Sturmii* Phyſic. Elect. Tom. II. p. 911.

Neg. *Carteſius* cauſam hujuſce motus in eo ponit, quod pars Lunæ a nobis averſa majori ſoliditate polleat, quam illa, quæ nobis obvertitur. Princip. P. iii. § 152.

Sturmius ab æthereo quodam vortice circa Lunam verſato ſolvit. Phyſ. Elect. Tom. II. p. 915.

20. *Utr.* Inæqualitates motuum lunarium ſolvi poſſint ex theoriâ gravitatis?

Aff. *Newtoni* Princ. L. i. Prop. 66. p. 170. *Pemberton*'s View, B. ii. c. 3. *Gregorii* Aſtron. L. iv. *Whiſtoni* Prælect. Phyſico-Math. L. xx. *Domckii* Philoſ. *Newtonian.* Tom. II. p. 82. *Graveſande* Elem. Phyſ. L. iv. c. 16.

21. *Utr.* Lunæ autumnalis * Phænomena ſolvantur ab inclinatione orbitæ lunaris ad Horizontem?

Cum nullus mihi occurrat auctor, qui hujuſce Phænomeni fere ab omnibus obſervati ſolutionem reddidit, me haud inutilem tyronibus operam præſtaturum eſſe duco, ſi id breviter explicatum dedero.

Notiſſimum eſt lunam tempeſtate autumnali, cum juxta oppoſitionem verſetur, vel ad eundem temporis articulum (ut in borealibus regionibus fieri poteſt) vel paulo tardiùs de nocte in noctem oriri. Id vero ex eo fit, quod lunaris orbita vel eclip-

* Vulgò, *The Harveſt-Moon*.

tica

tica (quas impræſentiarum coincidere ſupponatur) tunc temporis horizontem interſecet angulo omnium minimo. Etenim ponatur Sol in *Libra* & circa Horizontis partem occidentalem, Luna in *Ariete* & circa orientalem. Perficiatur integra telluris rotatio; ea peracta, eundem quem prius inter ſe ſitum obtinere debent Ecliptica & Horizon: ſed cum Luna interim in orbita, *i. e.* in conſequentia promoveatur, ideo infra Horizontem deprimetur, unde eam quotidie tardiùs oriri oportet. Liquidò autem conſtat hanc depreſſionem eò minorem eſſe, quò minore angulo ecliptica horizontem interſecat. Cum igitur angulus iſte ſit tempore æquinoctii autumnalis omnium minimus, ideo fit quod differentia temporis inter ſucceſſivos lunares ortus tunc erit omnium minima.

Hactenus ſuppoſuimus lunarem orbitam cum ecliptica coincidere, cum autem reverà ab ea declinat ad angulum circiter quinque graduum, varia erit differentia memorata pro vario nodorum ſitu. Si nodus aſcendens primum *Arietis* gradum, *i. e.* horizontem orientalem occupet, angulus inter horizontem & orbitam lunarem comprehenſus quinque gradibus minor erit, quam ſi Luna Eclipticam occupaverit, ideoque differentia in hoc caſu erit omnium minima,

ma, & fere nulla: pari ratione major erit pro majori diſtantiâ nodi ab hoc puncto.

IV. *De* TELLURE.

22. *Utr.* Telluris figura ſit ſphæroidica?

Terram globoſam dixiſſe primus fertur *Parmenides. Diog. Laert.* L. x. S. 21. Quam opinionem, adductis rationibus, tuetur *Ariſtoteles.* De Cœlo, L. ii. c. 14.

Eam non eſſe exactè ſphæricam, ſed ſphæroidicam, adeo ut maxima diameter per æquatorem tranſeat, probarunt *Hugen.* in Diſcurſu de cauſis gravitatis, p. 154. *Newtoni* Princip. L. iii. Prop. 19. p. 412. *Clerici* Phyſ. L. i. c. 8. *Jac. Ode* Phil. Nat. P. ii. p. 34. *Graveſande* Elem. Phyſ. L. iv. c. 17. *Whiſtoni* Prælect. Phyſico-Math. p. 300. *Varenii* Geograph. Engliſh'd by *Shaw,* V. I. B. i. c. 3. p. 28. Note *b.* *Hook*'s Poſth. Works, p. 349, 356, 371, 455. *Keil*'s Examination of *Burnet*'s Theory, p. 258. *Maupertuis*'s Diſſertation on the Figure of the Cœleſt. Bodies, p. 1. quæ 2dæ Editioni *Keilii* ſubjungitur.

Quidam ſunt Philoſophi, qui maximam telluris diametrum per polos tranſire docent.

Burnet's

Burnet's Theory of the Earth. Hiſtoire de l'Acad. p. 433. *Becmanni* Hiſtor. Orbis Terr. c. 1. § 10.

23. *Utr.* Telluris figura, ſitus vel inclinatio axis ad Eclipticam in melius mutari poſſint?

Numero pæne infiniti ſunt auctores, qui hanc materiam cum laude tractarunt. Præcipuos nominare ſatis duco. *Ray* on the Creation. *Derham*'s Aſtro-Theol. *Niewentyt*'s Religious Philoſopher. *King* de Origine Mali, Cap. 4. S. 5. Mr. *Law*'s Notes, *ibid.* *Cheyne*'s Philoſ. Princip. of Religion, Ch. 3. *Bentley*'s *Boyle*'s Lect. Serm. viii. *Grew*'s Coſmologia Sacra. Dr. *J. Clarke*'s *Boyle*'s Lectures.

Antediluvianum telluris ſtatum præſenti præferendum eſſe contendunt *Whiſtonus* & *Burnettus.* Quorum Theorias ad examen revocat, & multo cum ingenio refellit *Keil.* Vid. Examination of *Burnet*'s and *Whiſton*'s Theories.

Vid. ſupra, Cap. 2. Qu. 29.

24. *Utr.* Tellus rotetur circa axem?

Aff. Quotquot ſunt, qui ſyſtema *Copernicanum* tuentur. Vid. ſupra, Qu. 1.

25. *Utr.* Præceſſionis punctorum æquinoctialium cauſa Phyſica recte exponatur à NEWTONO?

Aff. *Newtoni* Princ. Math. L. iii. Prop. 21, 39. *Gregorii* Aſtron. L. ii. Prop. 31. *Whiſtoni* Prælect. Phyſico-Math. *Graveſande* Elem. Phyſ. L. iv. c. 18.

Conf. Auctores citat. ad Qu. 3, 4.

26. *Utr.* Motus Telluris annuus ex Parallaxi ſtellarum fixarum probari poſſit?

Aff. *Hook*, *Flamſtead*, *Caſſini*, &c. *Gregorii* Aſtron. p. 184. *Wallis* Op. Math. V. III. p. 701. Philoſoph. Tranſ. Nº 406. p. 637.

Neg. *Riccioli* Almag. Nov. Tom. I. p. 451. *Whiſtoni* Prælect. Aſtron. p. 33.

V. MISCELLANEÆ ASTRONOMICÆ.

27. *Utr.* *Hugenii* Hypotheſis ad explicanda Saturni Phænomena recte excogitetur?

Aff. *Hugen.* Syſtem. Saturn. p. 45. in Oper. 4to, p. 535. *Riccioli* Aſtron. Reform. p. 367. *Whiſtoni* Prælect. Aſtron. p. 235.

28. *Utr.*

28. *Utr.* Cauſa variarum annuli Saturniani Phaſium vera aſſignetur ab *Hugenio?*

Aff. *Hugen.* Syſtem. Saturn. in Op. p. 571. *Gregorii* Aſtron. L. 4. Prop. 69.

Neg. *Riccioli* Almag. Nov. L. vii. *Hevelius* de annulo Saturni.

29. *Utr.* Succeſſiva lucis propagatio ex eclipſibus Satellitum Jovis colligi poſſit?

Aff. *Whiſtoni* Præl. Aſtron. p. 227. *Lowthorp*'s Abridgment, Vol. I. p. 409. *Keil.* Introd. ad Aſtron. L. xvi. p. 222.

30. *Utr.* Cometæ ſint Meteora?

Aff. Plerique veteres. *Ariſtot.* Meteor. L. i. c. 6. *Plutarch.* de Placit. Philoſ. L. iii. c. 2. *Senec.* Nat. Quæſt. L. vii. c. 3.

Neg. Omnes recentiores. *Keplerus*, *Hevelius*, & *Carteſius* cometas in rectis trajicere ſtatuunt: alii rectius eos in ellypſibus moveri, quarum umbilicus alter eſt ſol. *Newtoni* Princ. L. iii. Prop. 40. *Gregorii* Aſtron. L. i. Prop. 35.

31. *Utr.* Cometæ Cauda ſit (juxta NEWTONUM) vapor longe tenuiſſimus, quem nucleus per calorem ſuum emittit?

S *Aff.*

Aſſ. Newton. Princ. Math. p. 506. *Gregorii* Aſtron. L. v. Prop. 4. Dr. *Pemberton*'s View, p. 238. *Clarkii* Not. ad *Rohault* Phyſ. P. ii. c. 26. *Keil.* Introd. ad Aſtron. Lect. 18. *Whiſtoni* Prælect. Phyſico-Math. Lect. 38. p. 320. *Clerici* Phyſ. L. i. c. 11.

Aliorum variæ ſunt Hypotheſes.

I. Aſcenſum caudæ aſcribit *Keplerus* actioni radiorum lucis materiam atmoſphæræ cometicæ ſecum rapientium. Vid. apud *Newton.* Princ. p. 514.

II. Alii cenſent Solis radios per pellucidum Cometæ corpus propagatos in illo, velut in lente vitrea, refringi, ac jubaris ſpeciem præbere ſpectandam. De hiſce vid. *Gregorii* Aſtron. L. v. p. 504.

III. *Carteſiani* caudam ortam eſſe volunt à refractione lucis in ejus progreſſu à capite ad ſpectatoris oculum. *Carteſ.* Princip. L. iii. § 120--140. *Le Grand* Inſtit. Phil. P. v. c. 17. § 12.

IV. De *Hevelii* opinione, (qui à veritate haud longe remotus eſt) Vid. *Cometogr.* L. vii, viii. *Sturmii* Phil. Elect. Tom. II. Exerc. 3. c. 3.

De variis horum opinionibus conſ. *Jac. Ode* Philoſ. Nat. P. ii. p. 225.

32. *Utr.*

32. *Utr.* Cometæ ſint eventuum futurorum prænuncii & ſigna?

Neg. *Bayle's* Reflections on a Comet. *Gaſſendi* Phyſ. S. ii. L. v. c. 3. Plura de hac re collegit *Jac. Ode* Phil. Nat. P. ii. p. 241.

33. *Utr.* Corpora cœleſtia in animalium corporibus quaſdam producant mutationes.

Aff. *Le Grand* Phyſ. Inſtit. P. v. c. 24. *Buddei* Philoſ. Theor. P. iv. c. 5. *Mead's* Diſc. concerning the Action of the Sun and Moon on animal Bodies. Miſcell. Curioſ. V. I. p. 371.

34. *Utr.* Judiciaria aſtrologia ſit admittenda?

Neg. *Cicero* de Divin. L. ii. c. 99. *Gaſſendus* in *Diog. Laert.* Tom. I. p. 488. *Bernoulli* Syſt. Comet. p. 68. Multa de hac re erudite diſſerit *Jac. Ode* Philoſ. Nat. P. ii. p. 235.

35. *Utr.* Stellæ periodicæ ſint erraticæ?

Aff. *Derham's* Aſtro-Theology, B. ii. c. 3.

Neg. *Keil.* Introd. ad Aſtron. Lect. vi. p. 56.

CAPUT IX.

QUÆSTIONES LOGICÆ.

1. UTRUM Logica ſit ars?

Aff. Burgerſdicii Inſtitut. Log. L. i. c. 1. *Aldrich's* Logic. Compend. p. 106.

Neg. Logicam eſſe ſcientiam propriè dictam docent *Hamelius. Philoſ. Burgund.* Tom. I. p. 56. *Euſtachius* in Summa Philoſophiæ, p. 4.

Nec artem eſſe nec ſcientiam contendit *Smiglecius*, ſed vere & proprie inſtrumentum ſcientiarum, *Smigl.* Log. Diſp. 2. Qu. 5. p. 80.

Hanc meram eſſe λογομαχίαν oſtenditur in Elem. Logicæ. Introd *.

2. *Utr.* Objectum Logicæ ſint operationes intellectûs quà dirigibiles?

Aff. Smiglecii Log. Diſp. 2. Qu. 1. p. 48. *Philoſ. Burgund.* Tom. I. p. 54. *Burgerſdicii*

* Ne mirentur lectores, quem librum intelligo ſub titulo *Elem: Logicæ* citatum, ſciant velim me novam Logicæ Inſtitutionem jam prelo parare, quam brevi in lucem emittere mihi in animum induxi.

gerſdicii Inſtitut. Log. L. i. c. 1. *Euſtachii* Summa Philoſ. p. 7.

3. *Utr.* Operationum mentis recte inſtituatur diviſio ternaria?

Aff. *Philoſ. Burgund.* Tom. I. p. 51. *Euſtachii* Logic. p. 10. Qu. 5. *Sanderſon's* Logicæ Compend. L. i. c. 1. *Wolfii* Log. P. i. c. 1. p. 130. *Smiglecii* Logic. Diſp. 2. Qu. 1. *Walliſii* Inſtit. Logicæ, c. 1.

Neg. Plerique e recentioribus Philoſophis operationes mentis & perinde Logicam in quatuor partes diſtribuunt. *Gaſſendi* Logica. Ars cogitandi. *Crouſaz* Syſtema Logicæ. *Clerici* Logica. *Watts's* Logic. Elementa Logicæ. *Le Grand* Inſtit. Log.

4. *Utr.* Logica ſit neceſſaria ad ſcientias acquirendas?

Aff. *Smiglecii* Log. Diſp. 2. Qu. 7. p. 97. *Wolfii* Logica, Proleg. § 20. P. ii. S. 2. *Le Grand* Phil. Inſtit. P. i. c. 1. *Philoſ. Burgund.* Tom. I. p. 61. *Sanderſon* de uſu Logicæ, Append. prima ad Log. Compend. Elem. Log. Introd. *Euſtach.* Summa Philoſ. p. 9.

Neg. *Gaſſendi* Exercitat. i. in Dialectic. *Ariſtot.* Oper. Tom. III. p. 149--156.

5. *Utr.*

5. *Utr.* Prima mentis operatio ſit capax directionis?

Aff. *Smiglecius*, Diſp. 3. Quæſt. 5. p. 114.

6. *Utr.* Aliquid ſit in intellectu, quod non fuit prius in ſenſu?

Aff. *Lee* contra *Locke*, B. ii. c. 1. Ars cogitandi, P. i. c. 1. *Le Grand* Phil. Inſtit. P. 1. c. 2. p. 13.

Neg. *Ariſtot.* Met. L. i. in Oper. Vol. IV. p. 281. *T. Aquin.* Summ. P. i. Qu. 84. Art. 6. *Locke*'s Eſſay on Hum. Und. B. ii. c. 1.

In quo ſenſu intelligi debet vid. Elem. Log. L. i. c. 1. S. 3. Not.

7. *Utr.* Quinque ſint Prædicabilia?

Aff. Omnes *Peripatetici.*

Neg. *Gaſſendus* in *Ariſtot.* Dialect. Exerc. 2. Art. 6.

8. *Utr.* Naturæ in ſingularibus exiſtentes ſint re ipſa univerſales?

Aff. *Platonici.* *Proclus* in *Platonis* Parmen. *Plutarchi* Placit. Philoſ. L. i. c. 3, 10.

Neg.

Neg. Peripatetici. *Ariſtot.* Met. L. xii. c. 5 Et qui Philoſophum tuentur, *Thomiſtæ.* Adeas *Smiglecii* Logic. Diſp. iv. Qu. 2. *Philoſ. Burgund.* Tom. I. p. 67. *Euſtach.* Log. p. 23. Et *Thomiſtarum* & *Scotiſtarum* ſententias ſummatim tradidit *Chauvinus*, in Lexic. Ration. ad vocem UNIVERSALIS.

Univerſalia eſſe mera nomina appellativa vult *Gaſſendus.* In Dialect. *Ariſtot.* Exerc. 2. Art. 3.

9. *Utr.* Univerſalia fiant per abſtractionem?

Aff. Scotus, *Durandus*, & plerique ſcholaſtici. *Smiglecii* Log. Diſp. 4. Qu. 8. *Philoſ. Burgund.* Tom. I. p. 67. *Norris*'s Ideal World, P. ii. c. 1. *Locke*'s Eſſay on Hum. Und. B. ii. c. 2. § 9. B. iii. c. 3. § 9. B. iv. c. 12. § 3. Mr. *Clarke*'s farther Examination of Dr. *Clarke*'s Notions of Space, c. 2. *King* de Origine Mali, Engliſh'd by *Law*, Note 1. *Watts*'s Logic, P. i. c. 3. § 3. *Clerici* Log. p. 1. c. 6. Rem fusè tractatam vid. in Elem. Log. P. i. c. 1. S. 5.

Neg. Sunt qui per comparationem univerſalia fieri volunt. Dr. *Berkley* on the Principles of Hum. Knowledge. Minute Philo-

Philoſopher, V. II. Dial. 7. Defence of the Analyſt, p. 56. Biſhop *Brown* on the Procedure and Limits of Hum. Underſt. B. ii. c. 4. p. 186. Utramque hypotheſin exponit *Chambers*, ad voces ABSTRACT & GENERAL.

10. *Utr.* Res ſint vere univerſales ante omnem operationem intellectûs?

Aff. *Euſtach.* Log. p. 25.

Neg. *Smiglec.* Log. Diſp. 4. Qu. 2. p. 135. *Locke*'s Eſſay, B. iii. c. 6. § 11. Elem. Logicæ, P. i. c. 1. S. 5.

Vid. ſupra, Qu. 8.

11. *Utr.* Genus & ſpecies ſint entia rationis?

Aff. *Smiglecii* Log. Diſp. 5. Qu. 1, 2. *Locke*'s Eſſay, B. iii. c. 6. § 11. Elem. Logicæ, P. i. c. 1. S. 5. *Philoſ. Burgund.* Tom. I. p. 96.

12. *Utr.* Genus in unica ſpecie, vel ſpecies in unico individuo conſervari poſſit?

Aff. *Philoſ. Burgund.* Tom. I. p. 100. *Aldrich*'s Logic. Compend. p. 109.

Neg. *Euſtachii* Log. p. 31.

13. *Utr.* Detur differentia cum ſpecie reciproca?

Aff.

Aff. Philoſ. Burgund. Tom. I. p. 104.

14. *Utr.* Diſtinguantur ſpecies a ſe invicem per eſſentias ſuas nominales?

Aff. Locke's Eſſay, B. iii. c. 3. § 2.

Neg. Lee againſt *Locke.* Dr. *Green*'s Philoſ. B. v. c. 8.

15. *Utr.* Eſſentiæ rerum ſint nobis ignotæ?

Aff. Locke's Eſſay, B. iii. c. 3. § 15. c. 6. per tot. *Clerici* Log. P. i. c. 7.

Neg. Dr. *Green*'s Philoſ. B. v. c. 8.

16. *Utr.* Eſſentiæ rerum ſitæ ſint in indiviſibili?

Aff. Veteres ſcholaſtici.

Neg. Locke's Eſſay, B. iii. c. 6. *Clerici* Logica, P. i. c. 8.

17. *Utr.* Optima ſit definiendi methodus per genus & differentiam?

Aff. Burgerſdic. Log. L. ii. c. 2. *Euſtach.* p. 89. *Walliſii* Log. L. i. c. 4. *Smiglec.* Diſp. 18. Qu. 2.

Neg. Locke's Eſſay, B. iii. c. 3. § 10. *Clerici* Log. Præf. § 4.

18. *Utr.* Proprium a ſubjecto poſſit ſeparari?

Aff. *Smiglec.* Log. Diſp. 5. Qu. 9. p. 204. *Euſtach.* Log. p. 40.

Neg. *Aldrich*'s Logicæ Compend. p. 110. *Gaſſendus* in Dialect. *Ariſtot.* Exerc. 2. Art. 2. Oper. Tom. III. p. 158. *Locke*'s Eſſay, B. ii. c. 13.

19. *Utr.* Subſtantia a proprietatibus ſit revera diſtincta?

Quidam volunt ſubſtantiam eſſe proprietatum congeriem, ipſam vero non aliud eſſe quàm merè abſtractam ideam. Mr. *Law*'s Tranſlat. of Archbp. *King* de Origine Mali, Not. 1. *Watts*'s Logic, P. i. c. 2. S. 2. p. 13. *Note.* His Philoſoph. Eſſays, Eſſ. iii. p. 47. Dr. *Green*'s Phil. B. v. c. 8.

Alii proprietates non eſſe reales ſed entia rationis exiſtimant. *Ariſtot.* Met. L. vii. c. 10. *Le Grand* Inſtit. Philoſ. P. iv. c. 8. *Philoſ. Burgund.* Tom. I. p. 496. Elem. Logicæ, P. i. c. 2. S. 3, 4.

Lockius de hac re ambigere & in tenebris verſari videtur. Eſſay on Hum. Und. B. ii. c. 13.

20. *Utr.* Accidens adeſſe & abeſſe poſſit ſine ſubjecti interitu?

Aff. *Aldrich*'s Compend Log. p. 111. *Smiglecii* Log. Diſp. 5. Qu. 10. p. 208. *Philoſ. Burgund.* Tom. I. p. 111.

21. *Utr.* Accidens migrare poſſit de ſubjecto in ſubjectum?

Neg. *Aldrich*'s Compend. Log. p. 112. *Smiglecii* Log. Diſp. 5. Qu. 10.

22. *Utr.* Diviſio entium in decem ſumma genera vel *Categorias* ſit juſta & maxime propria?

Aff. *Ariſtoteles* & innumeri alii, qui in ejus verba jurant. *Ariſtot.* de Categor. *Smiglecii* Log. Diſp. 7. Qu. 1. *Euſtachii* Logic. p. 45. *Philoſ. Burgund.* Tom. I. p. 117. *Walliſ.* Log. P. i. c. 6. *Fell*'s Grammatica Rationis, p. 27. *Burgerſdic* Log. L. i. c. 3.

Neg. *Gaſſendus* in *Ariſtot.* Dialect. Exerc. 3. Art. i. *Le Grand.* Inſtit. Philoſ. P. i. c. 8.

Varia eſt entium diſtributio apud varios auctores. Sunt, qui unam duxtaxat Categoriam, nempe ens ipſum; ſunt, qui duplicem ſtatuant, ſubſtantiam nempe & accidens. Sed *Lockiana* Prædicamentorum diviſio in Modos, Subſtantias & Relationes hodie receptiſſima eſt. *Locke*'s Eſſay, B. ii. c. 12. § 3. *Clerici* Logica, P. i. c. 5. Ars Cogitandi, L. i. c. 2, 3. *Watts*'s Logic, P. i. c. 2. S. 5. Elementa Logicæ,

P. i. c. 2. S. 2. *Crouſaz.* Syſt. Log. P. i. S. 2. c. 1. *Buddei* Philoſ. Inſtrum. P. i. c. 1. § 10.

23. *Utr.* Subſtantia prior attributo eſſe poſſit?

Aff. *Clarke*'s Anſw. to a ſeventh Letter, p. 46. *Jackſon* on the Exiſtence and Unity of God, p. 19.

Neg. *Aldrich* Compend. Log. p. 115. *Smiglecii* Log. Diſp. 8. Qu. 8. Mr. *Law*'s Enquiry into the Ideas, *&c.* p. 145. Diſſertation on the Argument *a priori*, c. ii. p. 58, 83.

24. *Utr.* Ratio ſubſtantiæ Deo & Creaturis conveniat univoce?

Aff. *Smiglecius*, Diſp. 8. Qu. 2.

Neg. *Locke*'s Eſſay, B. ii. c. 13. § 18.

25. *Utr.* Alicujus ſubſtantiæ habeamus ideam adæquatam?

Neg. *Locke*'s Eſſay, B. ii. c. 31. § 6, 10. *Clerici* Logica, P. i. c. 10. Elem. Log. P. i. c. 3. § 3.

26. *Utr.* Idea ſubſtantiæ incorporeæ ſit æque clara ac corporeæ.

Aff.

Aff. *Carteſius* de Methodo, p. 27. Ejuſdem Meditat. ii. & Philoſ. Princ. P. i. p. 14. *Rohaulti* Phyſ. P. i. c. 2. § 3. *Locke's* Eſſay, B. ii. c. 23. *Malebranche's* Search after Truth, B. iii. P. ii. ch. 7. Elementa Logicæ, P. i. c. 2. S. 4.

Neg. Biſhop *Brown's* Proced. and Lim. of the Underſt. B. i. c. 3. *Norris's* Ideal World, V. II. p. 252. Dr. *Felton's* Sermons at Lady *Moyer's* Lecture, Serm. i. p. 12.

27. *Utr.* Quantitas realiter differat a re quantâ?

Neg. *Walliſii* Log. p. 304.

28. *Utr.* Numerus ſit vere & proprie quantitas?

Rem ex utraque parte copioſe diſputatam vid. apud *Smiglecium*, Diſp. 9. Qu. 5. *Philoſ. Burgund.* Tom. I. p. 132.

29. *Utr.* Quatuor qualitatis ſpecies recte aſſignentur ab ARISTOTELE?

Aff. *Smiglecii* Log. Diſp. 11. Qu. 2, 3.

30. Relationes ſint entia realia?

Aff. Scholaſtici quidam, quos vix operæ pretium eſt recenſere.

Neg.

Neg. *Ariſtot.* Phyſ. L. v. c. 10. *Smiglec.* Diſp. 10. Qu. 1. *Philoſ. Burgund.* Tom. I. p. 144. *Locke's* Eſſay, B. ii. c. 25. Elem. Log. P. i. c. 2. S. 5.

31. *Utr.* In omni re poſſit fundari relatio?

Aff. *Smiglec.* Diſp. 10. Qu. 6. *Locke's* Eſſay, B. ii. c. 25. §7. *Crouſaz* Log. P. i. S. 2. c. 3. Elem. Log. P. i. c. 2. S. 5. *Clerici* Log. P. i. c. 4. *Buddei* Philoſ. Theoret. Tom. I. P. i. c. 1.

32. *Utr.* Relatio ſit tantùm denominatio extrinſeca?

Aff. *Gaſſendus* in *Ariſtot.* Dialect. Exerc. 3. Art. 12.

33. *Utr.* Dentur aliquæ relationes rebus eſſentiales?

Aff. *Suarez* in Metaph. Diſp. de Relatione. *Cajetan.* de Ente & Eſſentia, c. 7. Qu. 15.

Neg. *Ariſtot.* Metaph. L. iv. c. 2. *Averrces* Phyſ. L. i. c. 70. *Smiglec.* Diſp. 10. Qu. 8. *Locke's* Eſſay, B. ii. c. 25. §7--10.

34. *Utr.*

34. *Utr.* Relatio eſſentiam ſumat à termino?

Aff. Smiglec. Diſp. 10. Qu. 10. *Locke*'s Eſſay, B. ii. c. 25. § 6.

35. *Utr.* Judicium ſit actus voluntatis?

Aff. Norris of Reaſon and Faith, c. 1. Ideal World, P. ii. c. 3. S. 3. *Malebranche*'s Search after Truth, B. i. c. 2. *Fiddes*'s Theolog. Specul. B. iv. c. 1. *Jac. Ode* Theol. Natur. p. 58. *Le Grand* Inſtit. Phil. P. i. c. 11. *Watts*'s Logic, P. ii. c. 1.

Neg. Law's Notes to *King* on the Orig. of Evil, n. 42. *Collins*'s Enquiry about Liberty. *Clarke*'s Letters concerning Liberty, ſubjoin'd to Papers betwixt *Leibnitz* and *Clarke*. *Jackſon*'s Defence of Hum. Liberty, in Anſwer to *Cato*'s Letters, p. 99.

36. *Utr.* Contradictoria poſſint eſſe ſimul vera?

Quæſtionem fuſe tractavit *Smiglecius*. Diſp. 12. Qu. 10.

37. *Utr.*

37. *Utr.* Ideæ claræ & diſtinctæ ſint criterion veritatis?

Aff. *Locke*'s Eſſay, B. iv. c. 1. B. iv. c. 4. § 18. Second Letter to Biſhop *Stillingfleet*, p. 83. Elementa Log. P. ii. c. 3. *Watts*'s Log. P. ii. c. 2. S. 7. *Clerici* Log. P. ii. c. 7. *Le Grand* Inſtit. Philoſ. P. i. c. 2. *Buddei* Philoſ. Inſtrum. P. i. c. 3. § 27.

Neg. Veteres *Pyrrhonici* omnia veritatis criteria tollebant. V. *Sext. Empiricum.* Nec deſunt inter recentiores *Pyrrhoniſtæ.* Vid. *Huetii* opus Poſth. de Hum. Intell. Scepticos præclare refellit *Crouſaz* in Hiſtoire du *Pyrrhoniſme.*

38. *Utr.* Voces primò & immediate ſignificent ideas?

Aff. *Locke*'s Eſſay, B. iii. c. 2. § 2, 3. *Philoſ. Burgund.* Tom. I. p. 166. Elementa Logicæ, P. i. c. 4. S. 1. *Buddei* Phil. Inſtrum. P. ii. c. 1. § 7.

Neg. *Smiglecii* Log. Diſp. 12. Qu. 1.

39. *Utr.* Senſibus ſit fidendum?

Aff. *Aldrich*'s Compend. Log. p. 123. Elementa Log. P. ii.

Neg. *Aldrich*, Ibid. p. 126. *Carteſ.* Philoſ. Princ. P. i. § 4. *Le Grand* Inſtit. Philoſ. P. i. c. 2. *Malebranche*'s Search after Truth, B. i.

40. *Utr.* Simplex apprehenſio veritatis & falſitatis ſit capax?

Quæſtionem ex utraque parte diſputatam vid. apud *Philoſ. Burgund.* Tom. I. p. 177.

41. *Utr.* Propoſitiones de futuro contingenti ſint determinatè veræ aut falſæ.

Aff. *Smiglecius*, Diſp. 12. Qu. 10. *Philoſ. Burgund.* Tom. I. p. 180. *Le Grand* Inſtit. Philoſ. P. i. c. 13.

42. *Utr.* Omnis propoſitio ſit vel vera vel falſa?

Aff. *Philoſ. Burgund.* Tom. I. p. 187.

43. *Utr.* *Carteſius* Philoſophiam à dubitatione recte ordiatur?

Aff. *Carteſ.* de Methodo, p. 11. Princ. Phil. P. i. § 1. Medit. i. *Le Grand* Inſtit. Phil. P. i. c. 2. *Claubergii* Dubit. *Carteſiana.*

44. *Utr.* Definitio nominis a definitione rei diſtingui debeat?

Aff. *Le Grand* Philoſ. Inſtit. P. i. c. 10, 13. *Locke*'s Eſſay, B. iii. c. 10. § 16. *Clerici* Log. P. ii. c. 12. Ars Cogitandi, P. ii. c. 12. *Watts*'s Log. P. i. c. 6. § 2. *Burgerſdic.* Synopſ. Log. p. 185.

45. *Utr.* Propoſitio ſingularis habeat vim univerſalis?

Aff. Quæſtionem fuſe & ex profeſſo diſcutit *Walliſius,* Log. p. 261.

46. *Utr.* Omnis diſcurſus ſit ex præcognitis & præconceſſis.

Aff. *Smiglecius,* Diſp. 13. Qu. 3. *Philoſ. Burgund.* Tom. I. p. 196.

Hoc ſcholaſticorum axioma improbat *Lockius.* Eſſay on H. Und. B. iv. c. 7. § 8.

47. *Utr.* Certiora ſint, quæ diſcurſu cognoſcuntur, quam quæ ſenſu percipiuntur?

Aff. Ars Cogitandi, P. iv. c. 1. *Wollaſton*'s Relig. of Nat. S. 3. § 13. *Locke*'s Eſſay, B. iv. c. 2, 11. *Le Grand, Malebranche,* aliique *Carteſiani.* Vid. ſupra, Qu. 39.

48. *Utr.* Principium iſtud, *quæ conveniunt uni tertio conveniunt inter ſe,* ſit proprie fundamentum ſyllogiſmi?

Aff.

Aff. *Smiglecius*, Diſput. 13. Qu. 15. *Watts*'s Log. P. iii. c. 1.

49. *Utr.* Syllogiſmus ſit utiliſſimum rationis inſtrumentum?

Aff. Tota *Peripateticorum* turba.

Neg. *Locke*'s Eſſay, B. iv. c. 17. § 4. *Clerici* Log. P. iv. c. 2.

50. *Utr.* Ex falſo inferri poſſit verum?

Aff. *Sanderſon*'s Log. Compend. L. i. p. 129.

Neg. *Smiglec.* Diſp. 13. Qu. 9. *Philoſ. Burgund.* Tom. I. p. 199.

51. *Utr.* Quarta ſyllogiſmorum figura admitti debeat?

Aff. *Clerici* Log. P. iv. c. 4.

Neg. *Ariſtoteles*, & qui eum ſectantur. *Walliſii* Log. L. iii. c. 9. *Philoſ. Burgund.* Tom. I. p. 195.

52. *Utr.* Omnes ſyllogiſmi compoſiti ad categoricos reduci poſſint?

Aff. *Walliſii* Log. p. 280.

53. *Utr.* *Ariſtotelica* diſputandi methodus ſit methodo *Socraticæ* præferenda?

Neg. *Clerici* Log. P. iv. c. 9.

54. *Utr.* Demonſtratio *a priori* ſit ſola proprie & vere demonſtratio?

Aff. Smiglecius, Diſp. 15. Qu. 1.

55. *Utr.* Methodus Analytica ſit in diſciplinis philoſophicis Syntheticæ præferenda?

Vid. ſupra, Cap. 1. Qu. 1.

CA-

CAPUT X.

QUÆSTIONES METAPHYSICÆ.

I. *De* IDEIS.

1. UTRUM dentur innatæ Ideæ? *Aff.* *Plato* in Phæd. *Cic.*Tuſc. Diſp. L. i. c. 24. *Le Grand* Inſtit. Philoſ. P. ix. c. 4. *Herbert* de Veritate, p. 76, *&c.* Ed. 1656. *King* de Orig. Mali, c. 4. Not. *a.* *Sharrock* de fin. p. 168. *Sherlock* on a future State, p. 124. *Sanderſon* de Conſcientia, Præl. 1. p. 16. *Cudworth*'s Intell. Syſtem, c. 4. § 11.

Neg. *Ariſtot.* Met. L. i. c. 1. *Locke*'s Eſſay on Hum. Und. B. i. *per tot.* *Pearſon* on the Creed, p. 20. *Crouſaz* Syſt. Log. P. i. S. 2. c. 1. Elementa Logicæ, P. i. c. 1. S. 2. *Moſhemii* Not. ad *Cudworthi* Syſt. Intell. p. 223, 758, 836.

2. *Utr.* Ideæ ad ſenſus externos & phantaſiam omnino pertineant?

Aff. *Norris*'s Ideal World, P. ii. c. 8. p. 370. Proced. and Limits of Hum. Und. B. i.

B. i. c. 2. *Stillingfleet*'s Anſwers to Mr. *Locke*'s firſt Letter, p. 93.

Neg. Latiorem eſſe vocis *Ideæ* ſenſum voluit *Lockius.* Eſſay, Introd. § 8. Elem. Log. P. i. c. 1. S. i.

3. *Utr.* Mens Ideas ſolas percipiat?

Aff. *Locke*'s Eſſay, B. ii. c. 9. *Norris*'s Ideal World, P. ii. c. 3. §. 1. Elem. Logicæ, P. i. c. 1. S. 1. *Le Grand* Inſtit. Philoſ. P. i. c. 1. p. 2.

4. *Utr.* Omnes Ideæ originem ducant à ſenſatione & reflectione?

Aff. *Locke*'s Eſſay, B. ii. c. 1.

Neg. *Lee* againſt *Locke*, B. ii. c. 1. *Green*'s Princ. of Philoſ. B. v. c. 2. & B. vi. c. 7. Proced. and Lim. of Hum. Und. B. iii. c. 7. *Jac. Ode* Theolog. Nat. p. 39. *Cudworth*'s Intellectual Syſtem, c. 5. p. 754, 1145. Edit. *Moſheim.*

Sunt, qui negant abſtractas Ideas vel à ſenſatione vel à reflectione oriri poſſe. *Watts*'s Log. P. i. c. 3. S. 1. Philoſoph. Eſſays, iii. p. 93.

Sunt etiam, qui tertium Idearum genus, (quas *Imaginationi* tribuunt) ab Ideis ſenſationis & reflectionis diſtingui volunt: *Crouſaz* Syſt. Log, P. i. c. 5. Elementa Logicæ, P. i. c. 2.

5. *Utr.*

5. *Utr.* Idea ſoliditatis oriatur a tactu ſolo?

Aff. *Locke*'s Eſſay, B. ii. c. 4. *Graveſande* Elem. Phyſ. L. i. c. 3. Elem. Logicæ, P. i. c. 1. S. 3.

Neg. *Lee* againſt *Locke*, B. ii. c. 4. *Green*'s Princ. of Phil. B. v. c. 3. p. 612.

6. *Utr.* Idea durationis oriatur ex reflectione in ſucceſſionem Idearum in mente?

Aff. *Locke*'s Eſſay, B. ii. c. 14. *Hook*'s Poſth. Works, p. 139.

Neg. *Lee* againſt *Locke*, p. 76. *Green*'s Princ. of Philoſ. B. v. c. 6. p. 645.

7. *Utr.* Motus in organis corporeis Ideas neceſſariò excitet?

Neg. *Locke*'s Eſſay, B. ii. c. 5. & c. 9. § 3. Elem. Log. P. i. c. 1. S. 3.

8. *Utr.* Ideæ ſenſationis mutari poſſint à judicio?

Aff. *Locke*'s Eſſay, B. ii. c. 9. § 8--10. Elem. Logicæ, P. i. c. 1. S. 3.

Neg. *Green*'s Princ. of Philoſ. B. v. c. 4. p. 625.

9. *Utr.* Perceptio ſit activa mentis facultas?

Aff.

Aff. *Locke*'s Eſſay, B. ii. c. 9. § 2. *Norris*'s Ideal World, P. ii. c. 3. S. 1--3. Elem. Logicæ, P. i. c. 1. S. 4.

10. *Utr.* Omnis cognitio humana ex ſimplicibus Ideis componatur, & ſit in eas reſolubilis?

Aff. *Locke*'s Eſſay, B. ii. c. 7. § 10. Elem. Logicæ, P. i. c. 3. S. 1.

11. *Utr.* Mens ſibi formare poſſit Ideas ſimplices, vel eas deſtruere?

Neg. *Locke*'s Eſſay, B. ii. c. 2. § 2. & c. 12. § 1. El. Log. P. i. c. 3. S. 1. *Malebranche*'s Search, *&c.* P. ii. c. 3.

12. *Utr.* Ideæ ſimplices poſſint definiri?

Neg. *Locke*'s Eſſay, B. iii. c. 3. § 4, 10. Elem. Log. P. i. c. 3. S. 1.

13. *Utr.* Dentur Ideæ poſitivæ ex cauſis privativis oriundæ?

Aff. *Locke*'s Eſſay, B. ii. c. 8. § 1, 6. *King*'s Origin of Evil, 2d Ed. n. 3.

Neg. *Lee* againſt *Locke*, B. ii. c. 8. *Green*'s Princ. of Phil. B. v. c. 3. p. 617.

14. *Utr.* Idea infiniti oriatur ex ſenſatione & reflectione?

Aff.

Aff. *Locke*'s Eſſay, B. ii. c. 17.

Neg. *Lee* againſt *Locke*, B. ii. c. 17. *Green*'s Philoſ. B. v. c. 7. p. 657.

15. *Utr.* Quiddam detur in ſecundariis corporum qualitatibus earum Ideis ſimile aut conforme?

Aff. Nonnulli *Ariſtotelis* interpretes, qui formas ſubſtantiales tuentur. Vid. Cap. I. Qu. 16.

Neg. *Ariſtot.* de An. L. ii. c. 6. & L. iii. c. 3. *Locke*'s Eſſay, B. ii. c. 3. & c. 8. § 13. *Watts*'s Philoſ. Eſſays, p. 81. Elem. Logicæ, P. i. c. 1. S. 3. *Carteſ.* Princ. P. iv. § 194.

16. *Utr.* Dentur Ideæ, quæ oriuntur & à ſenſatione & à reflectione?

Aff. *Locke*'s Eſſay, L. ii. c. 20. § 1. & c. 7. § 6.

Neg. *Green*'s Princ. of Phil. B. v. c. 7.

17. *Utr.* Ideæ PLATONIS & Numeri PYTHAGORÆ unum idemque ſonent?

Aff. *Cudworth.* Intell. Syſt. c. 4. p. 466. Edit. *Moſh.* *Brucker.* in Amœnit. Literar. Tom. VII. p. 173.

Neg. *Moſheim.* Not. in *Cudworth.* l. c.

18. *Utr.* Ideæ PLATONIS ſint naturæ ex divina intelligentia procreatæ?

Aff. Plerique *Platonis* interpretes, in quibus familiam ducit *Ariſtoteles.*

Neg. Vult *Cudworthus* Ideas *Platonis* eſſe ſolum notiones in animo divino. Vid. Intell. Syſt. p. 661. cum *Moſhemii* Not. in loc.

Utriuſque ſententiæ defenſores longo ordine recenſet *Jac. Bruckerus* in Hiſt. Doctrinæ de Ideis, S. 1. § 5. p. 53.

II. *De* ANIMA.

19. *Utr.* Anima ſemper cogitet?

Aff. Omnes *Carteſiani.* *Le Grand* Inſtitut. P. ix. c. 1. *Watts*'s Philoſ. Eſſays, p. 114--124. *Green*'s Princ. of Philoſ. B. v. c. 2. p. 608. Remarks on Mr. *Locke*'s Eſſay. *Lee* againſt *Locke*, p. 44. Enquiry into the Nat. of the Soul, S. 4. p. 143. *Wollaſton*'s Relig. of Nat. p. 199.

Neg. *Locke*'s Eſſay, B. ii. c. 1. § 10. Defence of it, in Anſwer to Remarks, p. 26. *Clerici* Pneumatolog. c. 2. Solid Philoſophy aſſerted, p. 125.

20. *Utr.* Immaterialitas animæ demonſtrari poſſit?

Aff. *Clarke*'s Letters to *Dodwell* and *Collins*, *per tot.* His Diſcourſe on the Being and Attrib. of God, Prop. x. p. 88. *Le Grand* Inſtitut. Philoſ. P. ix. c. 2. *Euſtachii* Summa Philoſ. p. 328. *Carteſii* Meditat. *Jac. Ode* Theolog. Nat. p. 111. *Broughton*'s Pſychologia, c. 5. *Wollaſton*'s Relig. of Nature, p. 186. Dr. *H. More* on the Immortality of the Soul. *Norris*'s Ideal World, P. ii. c. 1. *Burnet* de Statu Mortuorum, c. 3. *Law*'s Tranſlation of *King* de Orig. Mali, note 7. His Enquiry into the Ideas of Space, Time, *&c.* p. 105. *Ditton* on the Reſurrection, Append. p. 357. *Raphſoni* Epiſtolæ de Animæ Naturâ. *Cudworth*'s Intellect. Syſtem, p. 827. *Moſheim*'s Edit. p. 1022. Cum innumeris aliis. Sed qui quæſtionem hancce eruditè & ingeniosè tractatam videre voluit, conſulat omninò librum anonymum, omnibus aliis longe præferendum; cui titulus, *Enquiry into the Nature of the human Soul.*

Neg. Lucret. L. i. ver. 864. *Hobbes*'s Leviathan, c. 46. *Dodwell* on the Soul. *Locke*'s Eſſay, B. iv. c. 3. § 6. His firſt Letter to *Stillingfleet*, p. 64. Third Letter,

ter, p. 396. *Collins*'s three Letters to Dr. *Clarke*. Dr. *Coward*'s Grand Eſſay. *Jackſon*'s Diſſertat. on Matter and Spirit. *Willis* de An. Brutorum, c. 6. *Blount*'s Letter to Lord *Rocheſter* in the Oracl. of Reaſon, p. 117.

21. *Utr.* Materia poſſit cogitare?

Vid. Auctores ad Quæſtionem ultimò memoratam citatos: qui illìc affirmant, hìc negant, & vice verſâ.

22. *Utr.* Anima ſit ſuâ naturâ immortalis?

Aff. Enquiry into the Nat. of the Soul, S. 3. *Sherlock* on a future State. *Smith*'s Select Diſc. p. 56. *Le Grand* Philoſ. Inſt. P. ix. c. 15. Cæterique, qui quæſtionis 20mæ partem affirmativam tuentur.

Neg. *Hallet*'s Treatiſe on the Immort. of the Soul. Et quotquot materiæ capacitatem cogitandi attribuunt.

Plurimos auctores tum veteres tum recentiores de hac re citavit *Fabricius* de Veritate Rel. Chriſtianæ, c. 18. p. 421.

23. *Utr.* Anima ſit extenſa?

Aff. Omnes, qui animam eſſe immaterialem negant. Vid. ſupra, Qu. 20. Sunt etiam

etiam qui affirmant & (quod miro ſimile videtur) ejus immaterialitatem nihilominus tuentur. *S. Colliber*'s Impartial Enquiry, p. 222. Dr. *S. Clarke*'s Letters to *Collins*, p. 118.

Neg. Plotini argumenta, quibus animam extenſione carere probat, erudite defendit *Cudworthus.* Intellect. Syſt. p. 823. Ed. *Moſheim.* p. 1111. *Le Grand* Inſtit. Philoſ. P. ix. c. 3. *Law*'s Notes to *King* de Orig. Mali, n. 7. Enquiry into the Ideas of Space, *&c.* *Watts*'s Philoſ. Eſſays, vi. S. 2. p. 146.

24. *Utr.* Cogitationum noſtrarum ſubjecto inſint facultates vegetativa, nutritiva, & locomotiva?

Aff. Veteres Scholaſtici.

Neg. Clerici Pneumatol. S. 1. c. 7.

25. *Utr.* Somniorum ratio ex materia & motu explicari poſſit?

Aff. Le Grand Inſt. Phil. P. viii. c. 20.

Neg. Enquiry into the Hum. Soul, S. 6. p. 196. *

* Quæſtionem unam & ulteram *de anima* inveniet Lector in capite ſecundo, quæ magis aptè in hac parte locum obtinere potuerint. Itaque ne has fruſtra quærat, adeat Cap. 2. Qu. 10, 11.

III.

III. *De* DEO.

26. *Utr.* Idea Dei ſit innata?
Vid. ſupra, Qu. 1.

27. *Utr.* Idea Dei probet ejus exiſtentiam?

Aff. Carteſ. Princ. Phil. P. i. § 14. Ejuſdem Meditat. 3, 5. *Claubergii* Comment. in *Carteſii* Medit. in Oper. p. 390. *Le Grand* Inſt. Phil. P. ii. c. 2. *More*'s Antidote againſt Atheiſm, L. i. c. 8. *Cudworth*'s Intellect. Syſt. p. 721. Edit. *Moſheim.* p. 896. *Andalæ* Syntag. Theol. vel Act. Erud. 1711. p. 22. *Claubergii* Exercit. de Deo in Act. Erud. 1691. p. 374. *Porretti* Cogitationes de Deo, p. 19. *Fiddes*'s Theol. Spec. B. i. P. i. c. 9. *S. Colliber*'s Impartial Enquiry, B. ii. P. i. *Jac. Ode* Theol. Nat. p. 26--31. *Stillingfleet*'s Orig. Sacræ, B. iii. c. 1. § 5, 6.

Neg. J. Franc. Buddei de Piet. Philoſ. in Select. Jur. Nat. & Gent. p. 206. *Norris*'s Treatiſes, p. 9. Ideal World, V. II. p. 291. *Locke*'s Eſſay, B. iv. c. 10. § 7. *Huetii* Cenſura Phil. *Carteſ.* c. 4. § 8. *Parker* de Deo & Provid. Diſp. vi. S. 24. Dr. *S. Clarke*'s Diſc. on the Being and Attr. p. 22.

p. 22. *Law*'s Notes to *King*'s Orig. of Evil, p. 54, 55, 56. 2d Edit. *Moſhemii* Not. ad *Cudworthi* Syſt. Intellect. V. II. p. 888—899.

28. *Utr.* Exiſtentia Dei probari poſſit ab æternis veritatibus?

Aff. *Norris*'s Miſcell. p. 142. Ideal World, P. ii. p. 529. *Cudworth*'s Intellect. Syſt. p. 906. Ed. *Moſheim*.

29. *Utr.* Exiſtentia Dei admittat demonſtrationem *à priori*?

Aff. Dr. *S. Clarke*'s Demonſtr. of the Being and Attr. Prop. 3. His ſeven Letters in Defence of his Demonſtration. Three Defences of Dr. *Clarke*, by Mr. *Clarke* of CC. C. C. *Jackſon* on the Exiſtence and Unity.

Neg. Veteres uno ore argumentum à priori rejiciunt. *Aphrodiſ.* Phyſ. Schol. L. i. c. 1. *Clem. Alexandr.* p. 696. *Albertus Magnus* in Lib. i. Sentent. Diſp. 3. Opp. Tom. XIV. p 66. *Aquin.* Summ. Qu. 2. Art. 2. p. 14. *Rog. Bacon.* Opus Majus, p. 62. *Rich. de Media Villa* in iv L. ſent. L. i. Diſt. 3. Qu. 3. p. 41. *Duns Scot.* in Libr. ſent. L. i. Diſt. 2. Qu. 2. p. 28. *Greg. de Valent.* Tom. I. Diſp. 1. Qu. 2.

p. 59.

p. 59. *Vaſq.* Qu. 2. Art. 2. p. 60. *Suarez.* Metaph. Tom. II. Diſp. 29. S. 3. p. 28. *Gillii* Comment. Theol. L. i. Tract. 8. c. 4. p. 391. *Eſtius* in L. Sent. Comment. Tom. I. p. 4. *J. Putean.* Op. Tom I. P. i. Qu. 3. p. 24. *Rod. de Arriaga,* Tom. I. p. 30.

Eandem tuentur partem plerique recentiores. *Petav.* Dogm. Theol. Tom. I. L. i. c. 1. p. 2. *Culverwell,* p. 212. *Barlow.* Exerc. Metaph. 4. p. 28, 129. *Fr. Bonæ Spei,* Diſp. 1. Dub. 2. *Cudworth*'s Intell. Syſt. B. i. c. 4. p. 715. *Le Blanc.* Theſ. p. 91. *Tillotſon*'s Serm. V. II. p. 671. Fol. *Ditton* on the Reſurr. p. 135. *Gretton*'s Review of the Argum. *à priori.* *Law*'s Notes to *King* de Orig. Mali, n. 10. & Rem. *e.* His Enquiry into the Ideas of Space, *&c.* c. 5. Et (qui inſtar omnium eſt) Diſſertation on the Argument *à priori.*

30. *Utr.* Exiſtentia Dei demonſtrari poſſit *à poſteriori?*

Unâ & mente & voce de hâc primâ veritate conſentiunt omnes; unde & novum oritur argumentum ab univerſo conſenſu petitum. "Cum enim (ut monet *Cic.* de Nat. "Deor. L. i. c. 17.) non inſtituto aliquo aut "more aut lege ſit opinio conſtituta, ma-

"neatque

"neatque ad unum omnium firma conſenſio, intelligi neceſſe eſt eſſe DEUM."

Dies deficeret, ſi vel milleſimam ſcriptorum partem, qui laudabilem in hâc palæſtrâ operam navarunt, adducerem. Paucos è recentioribus & laudatiſſimis memorare ſatis duco.

I. Argumentis metaphyſicis probârunt Scholaſtici. Item, *Barlow*'s Exercitat. Metaph. *Wilkins*'s Nat. Religion. *Seth Ward*'s Philoſophical Eſſay. *Fiddes*'s Body of Divinity. *Epiſcopii* Inſt. Theol. L. iv. S. 2. *Hale*'s Primitive Origination of Mankind. *Cudworth*'s Intellectual Syſtem. *King* de Origine Mali, with Mr. *Law*'s Notes. *Clarke*'s Diſc. of the Being and Attributes. *Colliber*'s Impartial Enquiry. Enquiry into the Evidence of the Chriſtian Religion, 2d Edit. *Wollaſton*'s Religion of Nature delineated.

II. Ab ordine & ſtructurâ mundi. Dr. *Bentley*'s Sermons at *Boyle*'s Lecture. *Derham*'s Phyſico-Theology, and Aſtro-Theology. *Ray* on the Creation. *Cheyne*'s Philoſ. Princ. of Religion. *Nieuwentyt*'s Religious Philoſopher, 3 Vol. *Stillingfleet*'s Orig. Sacræ. *Parker* Diſp. de Deo. *Grew*'s Coſmologia Sacra, B. i. c. 5. *Cockburn*'s Eſſays, P. i. Eſſ. 7. *W. Scott* on the Wiſ-

dom of God, Serm. i. *Edwards*'s Vindic. of God's Attributes.

31. *Utr.* Attributa Dei (*v. g.* Æternitas, Immenſitas, Omniſcientia, Omnipotentia, Immutabilitas, Simplicitas, Unitas, infinita Juſtitia, Sapientia & Bonitas) demonſtrari poſſint?

Conſ. Auctores ſupra citatos.

32. *Utr.* Unitatem & neceſſariam exiſtentiam Dei demonſtraverit CLARKIUS?

Aff. *Clarke*'s Diſc. on the Being and Attrib. Prop. 3, 7. His Letters in Defence of it. *Jackſon* on the Exiſtence and Unity of God.

Neg. Dr. *Gretton*'s Review of the Argument *à priori.* Mr. *Law*'s Notes to *King* de Orig. Mali, note 10. R. *i.* His Enquiry into the Ideas of Space, *&c.* c. 5, 6. Diſſertat. c. 2.

33. *Utr.* Moralia Dei attributa demonſtrari poſſint *à priori?*

Aff. *Clarke*'s Demonſtr. *&c.* Prop. 12. *Balguy*'s Divine Rectitude. Appendix at the End of his Vol. of Tracts. Wiſdom the Spring of Action in the Deity.

Neg.

Neg. Divine Benevolence. *Law*'s Notes on *King* de Orig. Mali, n. 10.

34. *Utr.* Moralia Dei attributa demonſtrari poſſint *à poſteriori?*

Aff. Divine Benevolence. *Law*'s Notes to *King*, n. 10. & R. *i.* Eſſay on Moral Obligation, c. 3. *Clerici* Pneumatol. S. 3. c. 11. *Wilkins*'s Nat. Relig. B. i. c. 10. p. 135. Vid. Qu. 30.

Neg. Divine Rectitude. Wiſdom the Spring of Action in the Deity.

35. *Utr.* Moralia Dei attributa interpretari oporteat in ſenſu analogico?

Aff. *Aquin.* Summ. P. i. Qu. 13. Art. 3. & Qu. 14. Art. 1. *Suarez* Diſp. Met. Tom. II. Diſp. 3. S. 15. *Gaſſend.* in Dial. *Ariſtot.* Exerc. 3. Art. 9. Dr. *Felton*'s Sermons at *Moyer*'s Lectures, p. 212. Biſhop *Brown*'s Anſwer to *Toland* on Myſteries. Proced. and Lim. of Human Und. Divine Analogy. *King*'s Serm. on Predeſtination. *W. Law*'s Caſe of Reaſon, p. 68.

Neg. *Edm. Law*'s Notes on *King* de Or. Mali, 10. R. *k.* *Tillotſon*'s Works, V. II. Serm. lxxvi. p. 569. The Minute Philoſopher, V. I. p. 247. *Jackſon*'s Anſw. to Divine Analogy. *Fiddes*'s Theol. Speculat.

 p. 125.

p. 125. & Practical Diſcourſes, fol. 234. *J. Clarke* on Moral Evil, p. 95. *Chubb*'s Tracts, p. 146. *Edwards*'s Vindication of the Divine Attributes.

IV. MISCELLANEÆ METAPHYSICÆ.

36. *Utr.* Cauſa propriè dicta neceſſariò fuerit & naturâ & tempore prior effectu?

Aff. Clerici Ontolog. c. 10. Elem. Log. P. i. c. 3. S. 6. Et quotquot fuerunt ſcriptores Dialectici.

Neg. Jackſon on the Exiſtence and Unity. Vid. infra, Qu. 38.

37. *Utr.* Eſſentiæ rerum ſint ab æterno?

Aff. Platonici.

Neg. Philoſ. Burgund. Tom. I. p. 478.

38. *Utr.* Æterna creatio contradictionem implicet?

Aff. Burgerſdic. Inſtitut. Met. L. ii. c. 10. n. 7. *Locke*'s Eſſay, B. ii. c. 26. § 2. Dr. *Clarke*'s Notions of Space examined, p. 93. Mr. *Clarke*'s farther Examination, &c. ch. 4. p. 146. Enquiry into the Nature of the Hum. Soul, S. 8. p. 357.

Neg. Three Defences of Dr. *Clarke*, by Mr. *Clarke* of CC. C.C. *Jackſon* on the Exiſtence and Unity of God.

39. *Utr.*

39. *Utr.* Aliquid eſſe poſſit in effectu, quod non fuit in cauſa? Sive,

Utr. Aliquis dare poſſit, quod non habet?

Axioma à Scholaſticis habetur, ſed in ſenſu peculiari & cum grano ſalis intelligendum. Vid. *Clerici* Ontolog. c. 10. Elem. Log. p. 1. c. 3. S. 6.

40. *Utr.* Axioma, *ex nihilo nihil fit*, admitti debeat?

De vero hujuſce axiomatis ſenſu diſſeruerunt *Cudworthus.* Syſtem. Intell. p. 950. *Ed. Moſh.* Et ipſe *Moſhemius* in Diſſertat. ibid. p. 957. *Clericus* ibid. p. 952.

41. *Utr.* Infinita ſeries contradictionem implicet?

Aff. Hale's Primit. Orig. of Mankind, S. 1. c. 4. *Seth Ward*'s Philoſoph. Eſſay. *Stillingfleet*'s Orig. Sacræ, B. iii. c. 1. § 7. *S. Colliber*'s Impartial Enquiry, p. 208. *Cudworth*'s Intellect. Syſt. p. 644. Id. p. 773. cum Notis *Moſhemii*. *Grew*'s Coſmol. Sacra, B. i. c. 1. *Locke*'s Eſſay, B. ii. c. 17. *Jac. Ode* Theol. Nat. p. 220. *Bentley*'s Sermons at *Boyle*'s Lect. Serm. iii. *Law*'s Notes on *King* de Orig. Mali, n. 10.

&

& Rem. *b.* Enquiry into the Ideas of Space, *&c. paſſim.* Mr. *Clarke*'s farther Examination, c. 4.

Neg. Jackſon on the Ex. and Unity. Mr. *Clarke*'s Three Defences. *Collins*'s Eſſay on Reaſon, p. 55.

42. *Utr.* Infinitas Metaphyſica diſtinguenda ſit à Mathematica?

Aff. Infinitas Mathematica eſt modus quantitatis, adeoq; negativa eſt. *Ariſt.* Nat. Auſcult. B. iii. c. 9, 11, 13. Phyſ. L. iii. c. 6. *Suarez*, Tom. II. Diſp. 30. § 11. *Locke*'s Eſſay, B. ii. c. 17. § 1, 17, 19. *Law*'s Notes on *King* de Orig. Mali, n. 3. Enquiry into the Ideas of Space, c. 3. p. 103. Elem. Log. P. i. c. 3. S. 6. *Cudworth*'s Intell. Syſt. p. 647. *Euſtach.* Phyſ. Tract. iii. Qu. 5. p. 152.

Infinitas Metaphyſica idem ſonat cum perfectione, & idea eſt poſitiva. *Moſhemii* Not. ad *Cudworthi* Syſt. Intell. p. 174. *Colliber*'s Impartial Enquiry, P. ii. c. 1, 3. *Brown*'s Proced. and Lim. of Hum. Und. B. i. c. 3. p. 82. *Law*'s Notes to *King*, p. 99. His Enquiry after Space, *&c.* c. 3. p. 103. *Sherlock*'s Vindication of the Trinity, p. 77. *Chauvini* Lexic. Ration. ad voc. INFINITUM.

Neg.

Neg. Sunt, qui nullam aliam infinitatem præter mathematicam ſapere poſſunt. *Hobbes* Leviathan, c. 3. *Carteſ.* Princ. P. i. § 26. Epiſt. P. i. Ep. 67. *Clarke's* Demonſt. of the Being, *&c.* p. 38, 39. *Jackſon* on the Exiſt. and Unity. Three Defences of Dr. *Clarke*. *Raphſon's* Demonſtratio de Deo, p. 2. *Clerici* Ontol. c. 17.

43. *Utr.* Æternitas ſit duratio ſucceſſiva?

Aff. *Raphſon* Demonſtr. de Deo. *Gaſſendi* Phyſ. L. i. c. 3. Op. Tom. I. p. 17. *Tillotſon's* Serm. Vol. VI. Serm. vi. & Vol. VII. Serm. xiii. 8vo. *Clarke* on the Being and Attrib. p. 39. *Clerici* Ontol. c. 5, 6. *Jackſon* on the Exiſtence and Unity, p. 32. Three Defences of Dr. *Clarke*.

Neg. *Epiſcop.* Inſtit. Theol. L. iv. c. 9. *Cudworth's* Intell. Syſtem, p. 644. *Colliber's* Impart. Enquiry, p. 209. *Hale's* Prim. Orig. of Mank. S. 1. c. 6. p. 123. *Seth Ward's* Philoſ. Eſſay, p. 23. *Grew's* Coſm. Sacr. B. i. c. 1. par. 9. *Jac. Ode* Theol. Nat. p. 220. *Smith's* Select Diſc. p. 125. Enquiry into the Nature of the Soul, note *ult.* *Gaſtrell's* *Boyle's* Lect. P. i. p. 66. *Stillingfleet's* Vindic. of the Trinity, p. 285. *Cudworth's* Intell. Syſt. c. 5. p. 778.

p. 778. *Moſhemii* Not. p. 780. *Law's* Notes on *King*, Rem. *c*. p. 66. 2d Edit. His Enquiry into the Ideas of Space, c. 3. Variorum de hac re dogmata collegit *Dion. Petav.* Dogm. Theol. Tom. I. L. iii.

44. *Utr.* Aliquod detur infinite extenſum?

Aff. *Clarke*'s Demonſtr. Prop. 6. His Anſwer to a ſeventh Letter. *Raphſon* de Deo. *Jackſon* on the Exiſt. and Unity, p. 100. Three Defences of Dr. *Clarke*. *More*'s Enchirid. Met. c. 27.

Mundum corporeum eſſe infinitè extenſum ſtatuerunt ex veteribus *Democritus*, *Epicurus*, *Lucretius*, aliique. *Laert.* L. ix. S. 31. *Plut.* de Plac. Philoſ. L. i. c. 3. *Gaſſend.* Phyſ. Epic. p. 165--200. *Lucret.* L. ii. ver. 1047. *Ariſt.* de Cœlo, L. i. t. 33.

Carteſius indefinitum dixit, Princ. ii. § 21. P. i. Epiſt. 67, 69. Eum ideo reprehenſum vid. apud. *Huet.* Cenſur. c. 5. § 5. *Philoſ. Burgund.* Tom. II. p. 761.

Neg. *Sherlock*'s Vindic. of the Trin. p. 80. *Watts*'s Philoſ. Eſſays, vi. p. 169. *Cudworth*'s Intell. Syſt. p. 776. Cum Notis *Moſhemii*, p. 775, 782. *Colliber*'s Impart. Inquir. P. ii. c. 1. *Jac. Ode* Philoſ. Nat. P. i. p. 48. *Gul. Muys* Elem. Phyſ.

S. 2. p. 117. *Waterland*'s firſt Defence of his Queries, p. 294. *Poirett.* Cog. Rat. L. iii. c. 24. *Gretton*'s Review, c. 6, 7. *Law*'s Notes on *King*, Rem. *h.* p. 82. 2d Edit. His Enquiry into the Ideas of Space, c. 3. *Schuler* contra *Carteſ.* Qu. 25.

45. *Utr.* Spatium ſit quiddam reale?

Aff. Philoſophi in varias diſtrahuntur opiniones de natura ſpatii. Sunt, qui volunt eſſe *modum* & quaſi *ſenſorium* Divini entis. *Newtoni* Princip. Math. Schol. Gen. ad finem. Ejuſdem Opt. Qu. 20. p. 315. *Clarke*'s Papers againſt *Leibnitz*, p. 1, 11, 41, 55, 77, 101, 123, 181, 299, & *paſſim.* Demonſtrat. of the Being and Attr. Prop. 2. Letters in Defence of it. *Raphſon* de Spatio reali, c. 5. *Jackſon* on the Unity and Exiſtence. Three Defences of Dr. *S. Clarke*. *Rudiger*. Phyſ. Div. L. i. c. 8. S. 4. p. 346. *H. Mori* Enchir. Metaph. c. 8. *Colliber*'s Impart. Enquir. p. 215.

Alii volunt idem eſſe, quod corpus. *Carteſ.* Princ. P. ii. § 4. *Le Grand* Princ. Philoſ. P. iv. c. 12. *Green*'s Princ. of Philoſ. B. i. c. 4. § 8, 18. *Jackſon*'s Diſſert. on Matter and Spirit.

Vid. ſupra, Cap. 1. Qu. 13.

Vult *Gaſſendus* ſpatium eſſe medium quoddam inter ſubſtantiam & accidentem. Phyſ. S. 2. L. ii. c. 2. Op. Tom. I. p. 182.

Lockius ſibi ignotum eſſe profitetur ad quam rerum claſſem ſpatium referendum ſit. Eſſay on Hum. Und. B. ii. c. 13. § 17.

Neg. Alii denique omnem realem exiſtentiam ab eo adimunt, & inter Ideas abſtractas referunt. *Law*'s Notes to *King* de Orig. Mali, n. 3, 9. Enquiry into the Ideas of Space, c. 1. Dr. *Clarke*'s Notions of Space examin'd. A farther Examination, *&c.* by Mr. *Clarke* of *Magd.* Coll. *Watts*'s Philoſ. Eſſays, i. *Vrieſius* de Extenſ. Infin. § 42. *Jac. Ode* Philoſ. Nat. P. i. p. 22.

46. *Utr.* Tempus ſit quiddam reale?

Aff. *Clarke*'s Papers againſt *Leibnitz*, p. 305. *Jackſon* on the Exiſt. and Unity, p. 95.

Neg. Ad idearum abſtractarum claſſem refert *Law.* Notes on *King*, p. 67. Enquiry into the Ideas of Space and Time, c. 2, 4. *Le Grand* Inſtit. Phil. P. iv. c. 24. *Philoſ. Burgund.* Tom. I. p. 519.

Tempus

Tempus eſſe modum exiſtentiæ entium finitorum ſtatuit *Lockius.* Eſſay, B. ii. c. 17. § 1.

47. *Utr.* Locus ſit relativus ad corporum ſitum?

Aff. *Smiglec.* Log. Diſp. 9. Qu. 9. *Philoſ. Burgund.* Tom. I. p. 523. *Le Grand* Inſtit. Philoſ. P. iv. c. 12. *Locke*'s Eſſay, B. ii. c. 13. § 7.

Neg. Qui realem exiſtentiam ſpatio attribuunt, vid. ſupra, Qu. 45.

48. *Utr.* Motus ſit merè relativus?

Aff. *Le Grand* Inſtit. Phil. P. iv. c. 14. *Law* on Space and Time, p. 66, 69. *Leibnitz*'s Reply to *Clarke*, p. 99, 205. *Smiglec.* Log. Diſp. 9. Qu. 7. *Chauvini* Lex. Rat. ad voc. MOTUS LOCALIS.

Neg. *Clarke*'s Papers againſt *Leibnitz*, p. 79, 133. *Jackſon* on the Exiſtence and Unity, p. 88. *Coward*'s Grand Eſſay, p. 4.

49. *Utr.* Motus æternus eſſe poſſit?

Aff. *Ariſtot.* Phyſ. Auſcult. L. viii. c. 5.

Neg. *Cudworthi* Intell. Syſt. p. 1131. Ed. *Moſh.* Vid. ſupra, Cap. 2. Qu. 2. & Cap. 10. Qu. 36.

50. *Utr.* Hominibus competat liberum arbitrium?

Aff. Omnes melioris notæ Philoſophi; attamen de natura hujuſce libertatis in diverſas diſtrahuntur opiniones.

I. Sunt, qui libertatem agendi aſſerunt, ſed eligendi aut reſpuendi negant. *Locke*'s Eſſay, B. ii. c. 21. Epiſt. ad *Limborch.* p. 474. *Lockium* ad examen revocant *Law.* Notes on *King* de Orig. Mali, n. 45. p. 246. *Strut*'s Rem. on *Locke*'s Ch. of Power.

II. Alii libertatem homini attribuunt, quatenus omni vi vel neceſſitati phyſicæ opponitur. *Clarke*'s Demonſtr. of the Being and Attr. p. 109. Anſw. to *Collins*'s Philoſ. Enquir. p. 24. *Jackſon*'s Defence of Hum. Lib. p. 99.

III. Vult *Leibnitzius* homines ideo gaudere libertate, quoniam ſine *ratione ſufficiente* determinare non poſſunt. *Theodic.* § 45. Conf. Papers betwixt *Leibnitz* and *Clarke*, *paſſim.*

IV. Quidam libertatem ponunt in *indifferentia* quadam ad omnia objecta. *King* de Orig. Mali, c. v. S. 1. *Law*'s Notes ibid. Eſſay on Conſciouſneſs, p. 209. *Kingii* hypotheſin de ratione libertatis ad examen revocat *J. Chr. Wolfius*, in *Manichæiſm*

chæiſm. ante *Manichæos.* Eidem oppugnat *Bælius.* Reponſe aux quæſtions d'un Provincial. Tom. II. c. 19. *Leibnitzius* ad calcem libri, *Eſſais de* Theodicee.

V. Plerique in eo libertatem ponunt ſcil. nos; quod bonum apparet, eligere poſſe; quod malum, reſpuere; & in quibuſdam circumſtantiis determinationem ſuſpendere; adeo ut voluntas ſemper ſequatur ultimum intellectûs judicium. *Ariſtot.* Ethic. ad Nicom. L. i. c. 1, 4. Polit. L. i. c. 1. *Epiſcopii* Tract. de Libero Arbitrio. *Limborch* Theol. Chriſtiana, L. ii. c. 23. § 30. Bp. *Bramhall* contra *Hobbes*, p. 678. *Malebranche*'s Search, *&c.* L. i. c 1. *Philoſ. Burgund.* Tom. II. p. 271. *Norris*'s Ideal World, P. ii. c. 2. § 3. *Pufendorf* de Jure Nat. & Gent. L. i. c. 4. De Offic. Hom. & Civ. L. i. c. 1. § 9.

Neg. Nec deſunt, qui omnes mortalium actiones fato & neceſſitatis legibus ſubjiciunt; ſcil. *Democritus*, & *Epicurus* inter veteres, de quibus vid. *Diog. Laert.* *Cic.* de Fin. L. i. vel *Stanleii* Vit. Philoſ. & inter recentiores, *Hobbeſius* in Leviath. *paſſim.* Debate with Biſhop *Bramhall*, p. 289. *Spinoza* Eth. P. ii. Prop. 13, 32, 48. *Collins* in Philoſoph. Enquiry concerning Liberty: & Diſſertation on Liberty and Neceſſity.

Omnes

Omnes de fato Hypotheſes præclare refellit *Cudworth.* in Syſt. Intellect.

Hobbeſius refutatur à *Bramhall* Epiſc. *Derr.* Et tam *Hobbeſius* quam *Spinoza* à *Clarkii.* Demonſtr. of the Being, &c. p. 96. & *Collins* ab eodem ex profeſſo, in Append. ad Letters betwixt *Clarke* and *Leibnitz*; necnon & à *Ph. Gretton*'s Remarks on *A. C.*'s two Pamphlets on Liberty. *Jackſon* Vindic. of Hum. Liberty in Anſwer to *A. C.*

51. *Utr.* Voluntarium in homine ſit ſemper liberum?

Neg. Euſtach. Eth. p. 39. *Waterland*'s firſt Defence, p. 127. *Clarke*'s Scripture Doct. p. 248.

52. *Utr.* Præſcientia divina tollat libertatem agendi?

Aff. Collins's Eſſay on Reaſon, p. 45. *Cato*'s Letters, Vol. IV. p. 178.

Neg. Le Grand Inſtit. Philoſ. P. x. c. 20. *Clarke* on the Attrib. p. 111. *Jackſon*'s Def. of Hum. Liberty, in Anſwer to *Cato*'s Letters, ii. p. 54, 62. *Law*'s Notes on *King* de Orig. Mali, n. 77. p. 442. *King*'s Sermon on Predeſtination. *Wollaſton*'s Relig. of Nat. *Howe* on Preſcience.

53. *Utr.*

53. *Utr.* Origo mali ſolvi poſſit ſalvis Dei attributis?

Aff. *King* de Orig. Mali. *Law*'s Tranſlation with Notes, 4to & 8vo. *Wolſii Manichæiſmus* ante *Manichæos.* Dr. *J. Clarke*'s Enquiry into the Cauſe and Origin of Evil. *Gurdon*'s *Boyle*'s Lectures, Serm. v. *Bulſingeri* Comment. Theol. de Orig. Mali. *Mer. Caſaubon* on the Cauſe of temporal Evils. Dr. *S. Clarke*'s Demonſtr. of the Being, *&c.* p. 116. *Buddeus* de Orig. Mali. *Stillingfleet*'s Orig. Sacræ, B. iii. c. 3.

Neg. *Bayle* Hiſtor. & Crit. Diction. ad voc. MANICHEANS, MARCIONITES, ORIGEN, PAULICIANS, *&c.* Reſponſe aux queſtions d'un Provincial, Tom. II. c. 3, 4, 5.

Scripta ad controverſias *Bælianas* ſpectantia recenſet *Fabricius*, de Verit. Relig. Chriſtianæ, c. 15. p. 383.

Hiſtoriam *Manicheiſmi* nuper fuſe tradidit M. *de Beauſorbe*, in Hiſtoire Critique de *Manichcè* & du *Manicheiſme.*

54. *Utr.* Æternitas pænarum contradicat divinis attributis?

Aff.

Aff. Epiſcop. Reſponſ. ad Quæſt. p. 67. *Burnet* de Statu Mortuorum, c 11. Lux Orientalis, p. 73. *S. Colliber*'s Imp. Enquiry, p. 105. His Eſſay on Reveal'd Relig. p. 142. *Phœnix*, Vol. I. p. 1. Vol. II. p. 427. A Revelation of the everlaſting Goſpel-Meſſage, 1697. *T----l*'s Chriſtianity as old as the Creation, c. 4. Idem innuere videtur *Tillotſon*, Vol. III. Serm. iii.

Neg. Lupton's Sermon on Hell Torments. *Jenkins*'s Reaſonableneſs of Chriſtianity, Vol. II. c. 14. *Sherlock* on Providence, c. 2. *Rymer*'s Reveal'd Relig. c. 7. *Whitby*'s Append. to 2d of the *Theſſalon. Nicholls*'s Conf. P. iii. p. 309. *Scott*'s Chriſtian Life, Vol. V. p. 91. Diſcourſes, p. 435. *Bates* on the Exiſt. of God, c. 12. *Dawes*'s Serm. v. p. 73. *Moſs*'s Serm. Vol. I. Serm. xiv, xv. *Lake*'s Serm. on Hell Torments. *Beveridge*'s Sermons, Vol II. Serm. viii. *Patrick*'s Witneſſes of Chriſtianity, P. ii. *King* de Orig. Mali, Append. S. 2. *Dodwell*'s Script. Account of eternal Rewards and Puniſhments. *Swinden* on the Nature of Hell.

55. *Utr.* Status futurus pateat lumine naturæ?

Aff.

Aff. *Burnet* de Statu Mortuorum, c. 2, 3. *Sherlock* on a future State. *Gaſtrell's* Moral Proof of the Certainty of a future State. *Jac. Ode* Theol. Nat. p. 192, 194. *Wollaſton's* Relig. of Nat. S. 9. Prop. 8. Enquiry into the Nature of the Soul, S. 3. *Clarke's* Evid. of Nat. and Rev. Rel. Prop. 4. p. 128. *Cicer.* Tuſc. Qu. L. i. Vid. ſupra, Qu. 22.

Neg. *Hallet's* Diſcourſes, Vol. I. p. 210.

Ambig. *Johnſon's* Sermon on the Inſufficiency of the Law of Nature, p. 24.

56. *Utr.* Recte ſtatuit MALEBRANCHIUS nos omnia in Deo videre?

Aff. *Malebranche*, Search after Truth, P. iii. c. 6. p. 121. & *paſſim.* *Norris's* Ideal World, P. i. Letters concerning the Love of God.

Nec multum huic diſſimilis videtur hypotheſis, quam tuetur *Berkleius.* New Theory of Viſion. Princ. of Hum. Knowledge, p. 59. Minute Philoſ. Vol. I. Dial. 6.

Neg. *Locke's* Letters in Oper. Poſthumo. *Ant. Arnauld* contra *Malebranche.* Acta Erud. A. D. 1686. p. 183. Vid. plures citat. in *Fabricius* de Verit. Rel. Chr. c. 16. p. 405. Vid. ſupra, Cap. 2. Qu. 1.

57. *Utr.* Conſcientia conſtituat perſonalem identitatem?

Aff. *Locke*'s Eſſay, B. ii. c. 27. His third Letter to the Biſhop of *Worceſter*, p. 165. Elem. Log. P. i. c. 3. S. 6.

Neg. *Lee* againſt *Locke*, p. 124. *Lupton*'s and *Felton*'s Sermons on the Reſurrection. *Clarke*'s Letters to *Collins*, p. 230.

58. *Utr.* Recte concordet ratio cum fide?

Aff. *Locke*'s Eſſay, B. iv. c. 18. *Clerici* Log. P. ii. c. 9, 10. *Petri Poiret.* Fides & Ratio collatæ adverſus principia *J. Lockii.* *Whiſton*'s Reaſon and Philoſ. no Enemies to Faith, in Sermons and Eſſays. *Barton* de Concordia Scientiæ cum Fide. *Leibnitz* Eſſais du *Theodicee.* *Huetii* Alnetanæ Quæſt. L. iii. *Fiddes*'s Theolog. Specul. B. iv. c. 1. S. 8.

Neg. Philoſophia ſcripturæ interpres a *Lud. Meyer.* *Blount*'s Oracles of Reaſon. *Toland*'s Chriſtianity not myſterious.

Tolandum refutarunt *Brown*, Anſw. to Chriſtianity not myſterious. *Norris* of Reaſon and Faith. *Beconſhall*'s Chriſtian Belief. *Langerhauſen* Myſteria Chriſtianiſmi. Vid. *Fabric.* p. 480.

59. *Utr.*

59. *Utr.* Ullum aliud ſit principium individuationis, quam ipſa exiſtentia?

Aff. A Scholaſticis vulgo recenſentur genus & differentia, tanquam principium individuationis?

Neg. Philoſ. Burgund. Tom. I. p. 480. *Locke*'s Eſſay, B. ii. c. 27. § 3.

60. *Utr.* Non-exiſtentia præferenda ſit miſeriæ?

Quæſtionem hanc copiosè diſcutit *Barlow.* Vid. Remains, p. 470.

CAPUT XI.

QUÆSTIONES ETHICÆ,

I. *De* SCIENTIA MORALI *in genere.*

1. UTRUM Ethica ſit ſcientia propriè dicta?

Aff. Philoſ. Burgund. Tom. I. p. 223. *Euſtach.* Eth. p. 3.

2. *Utr.* Dentur innata principia practica?

Aff. Sanderſon de Conſcient, Præl. i. p. 16. *Sharrock* de fin. p. 31. *Lowde* againſt *Hobbes*, c. 3.

Neg. Locke's Eſſay, B. i. c. 3. *Pufendorf*'s Law of Nature, B. ii. c. 3. § 13.

Vid. Cap. 10. Qu. 1.

3. *Utr.* Detur innatus ſenſus moralis?

Aff. Shaftsbury's Enquiry concerning Virtue, in Charact. Vol II. *Balguy*'s firſt Letter to a Deiſt, p. 6. *Conybeare*'s Def. of Reveal'd Religion, p. 65. Sed hanc partem quæſtionis præcipue ornavit *Hutcheſonus.*

cheſonus. Enquiry into the Ideas of Beauty and Virtue, P. ii. Illuſtration on the moral Senſe, ad calcem libri de Paſſionibus. Idem *Conſcientiæ* nomine quibuſdam auctoribus venire ſolet. *Butler*'s Three Sermons on Conſcience; and Preface to the 2d Edition of his Sermons. Remarks on Mr. *Locke*'s Eſſay; cui reſponſum eruditum reddidit anonymus, in, *Defence of Mr.* Locke's Eſſay, p. 65.

Neg. Locke's Eſſay, B. i. c. 3. *Velthuyſen* de Princ. juſti & decori, p. 73. The Minute Philoſopher, V. I. Dial. 3. Foundation of Morality, by *Clarke* of *Hull.*

Sunt qui moralem ſenſum ab habitu & Idearum aſſociatione plane deducunt. Prelim. Diſſert. to *Law*'s *Engliſh* Verſion of *King* de Orig. Mali. Eſſay on Moral Obligation, c. 5.

4. *Utr.* Generalia ſcientiæ moralis præcepta ſint intuitivè cognita?

Aff. Clarke's Evid. of Nat. and Rev. Rel. p. 63. cæterique qui innata principia practica, aut ſenſum moralem tuentur vel moralem obligationem ab abſtractis rerum relationibus ducunt. Vid. Qu. 2, 3, 8.

Neg. Locke's Eſſay, B. i. c. 3. §4, *&c.* Eſſay on Moral Obligation, c. 4. p. 26.

5. *Utr.*

5. *Utr.* Moralis ſcientia ſit capax demonſtrationis?

Aff. *Locke*'s Eſſay, B. iv. c. 11. § 16, *&c.* *Pufendorf*'s Law of Nature, B. i. c. 2. S. 4. *Barbeyrac*'s Pref. Diſc. to *Pufendorf*, S. 2.

6. *Utr.* Privata felicitas ultimus actionum moralium finis eſſe debeat?

Aff. *Turner* on the Laws of Nat. § 6. *Cumberland* de Legibus Nat. c. 5. § 2. p. 241. *Pufendorf*'s Law of Nat. B. i. c. 6. § 5. B. ii. c. 3. § 14, 15. Eſſay on Moral Obligation, c. 1. & c. 5. p. 58. *Mori* Enchirid. Eth. L. iii. c. 2. *Sherlock* on Judgment, p. 20--25. *Conybeare* on Rev. Relig. p. 59. *Law*'s Prelim. Diſſertat. to *King*, p. 25. Ibid. note 53. p. 307.

Neg. Virtutem eſſe per ſe optabilem, & ultimum actionum finem docuerunt veteres Stoici. Vid. *Diog. Laert.* *Cic.* de finibus. Vel *Stanley* de vitis Philoſ. Eandem opinionem amplectuntur quidam recentiores. *Sharrock* de fin. p. 148. *Clarke*'s Evid. of Nat. and Reveal'd Rel. Prop. 1. Diſſertat. on the Law of Nat. annex'd to *Maxwell*'s *Cumberland*, c. 1. *Chubb*, vid. his Vol. of

Tracts,

Tracts, *paſſim.* *Balguy*'s Two Letters to a Deiſt, aliique Tract. *paſſim.*

7. *Utr.* Sanctio pænalis ſit Legi eſſentialis?

Aff. *Selden* de Jure Nat. & Gent. L. i. c. 4. *Puſendorf* de Offic. H. & Civ. L. i. c. 2. § 7. *Parker*'s Demonſtr. of the Law of Nat. p. 60. *Cumberland* de Leg. Nat. Proleg. § 6. Eſſay on Moral Oblig. p. 59.

Neg. *Chubb*'s Reflections, p. 44. *Maxwell*'s Diſſertat. p. 55. aliique ſupra citati.

8. *Utr.* Sublato ſtatu futuro maneat ad virtutem obligatio?

Aff. *Hoadley*'s two Letters to *Atterbury*. His Tracts, p. 101. *Shafteſbury*'s Characteriſticks, Vol. II. p. 57, 69. *Butler*'s Pref. to a 2d Edit. of his Serm. p. 17. aliique qui ſtant ex parte negativæ Quæſt. præc.

Neg. *Atterbury*'s Defence of his Sermon at Mr. *Bennet*'s Funeral. *Gaſtrell*'s Moral Proof of a future State, p. 40. His *Boyle*'s Lect. p. 93. *Wilkins*'s Nat. Rel. p. 67. *Tillotſon*, Vol. II. Serm. xxiv. p. 157. *Locke*'s Eſſay, B. ii. c. 21. § 54. *Pearſon* on the Creed, p. 304. *Scott*'s Chiſtian Life, P. iii. c. 5. *Sherlock* on Judgment, p. 116.

9. *Utr.*

9. *Utr.* Voluntas Dei ſit ſola adæquata moralium actionum norma? Sive,

Utr. Formalis ratio virtutis conſiſtat in conformitate ad voluntatem Dei?

Aff. *Locke*'s Eſſay, B. i. c. 3. § 18. B. ii. c. 28. § 5--8. *Stillingfleet*'s Irenic. c. 1. § 4. *Cumberland* de Leg. Nat. c. 5. § 27. *Parker*'s Demonſtr. of the Law of Nat. P. i. § 31. *Carteſii* Meditat. Obj. & Reſp. 5tæ. *Sanderſon* de Conſcient. Præl. iv. § 20--23. *Dawſon*'s Origo Legum, c. 2. *Sharpe*'s Serm. Vol. II. p. 299. Vol. IV. p. 198. *Puſendorf*'s Law of Nat. B. i. c. 2. § 6. *Barbeyrac* in loc. *Gaſtrell*'s *Boyle*'s Lect. Divine Benevolence. *Taylor*'s Ductor Dubitant. B. ii. c. 1. p. 232, 263. Foundation of Morality, by Mr. *Clarke* of *Hull.* *E. Law*'s Notes to *King*, p. 87, 304. & Prelim. Diſſertat. S. 2. *W. Law*'s Caſe of Reaſon, p. 47. *Felton*'s Pref. to *Moyer*'s Lecture, p. 18, 34, 51. Eſſay on Moral Obligat. c. 1.

Neg. Alii volunt formalem rationem virtutis in conformitate cum abſtractis rerum relationibus conſiſtere. Dr. *Clarke*'s Evid. of Nat. and Rev. Relig. Prop. 1. *Balguy*'s Foundation of Moral Goodneſs, aliique ejus tractatus *paſſim.* *Grotius* de Jure,

B.

B. & P. L. i. c. 1. § 10. *Fiddes* on Morality. Preface to the ſecond Vol. of his Body of Divinity. *Chubb*'s Previous Queſtion; and Supplement. *Norris*'s Miſcell. p. 142, 153, 370.

Sunt, qui in veritate ponunt, non tam in re quam in voce *Clarkianis* diſſimiles. *Ruſt* upon Truth. *Wollaſton*'s Relig. of Nature, S. 1.

10. *Utr.* Moralis actionum natura, ordine naturæ, voluntati divinæ antecedat?

Aff. *Cudworth*'s eternal and immut. Morality, c. 3. Dr. *Clarke*'s Evid. of Nat. and Rev. Religion. Prop. 1. p. 86. *Grotius* de Jure, B. & P. Prol. § 11.

Neg. *Smiglec.* Diſp. iv. Qu. 1. p. 133. *Pufendorf*'s Law of Nature, B. i. c. 2. § 6. *Law*'s Notes on *King*, n. 53. p. 302. Eſſay on Moral Obligat. c. 1. *Law*'s Caſe of Reaſon, p. 49. Conf. Auctores ſupra citat.

In quo ſenſu intelligi debet relationes rerum antecedere Dei voluntati, vid. apud *Conybeare*, Rev. Relig. p. 56.

11. *Utr.* Moralis actionum natura à magiſtratu unicè derivetur?

Aff. *Hobbes* Leviath. *paſſim.* De Cive, c. 12. § 1.

Neg. *Cudworth*, Intell. Syſt. p. 92. Ed. *Moſh.* p. 92. Eternal and Immut. Moral. c. 1, 3. *Hooker*'s Eccleſ. Polit. B. i. S. 10. *Taylor*'s Ductor. Dubit. B. iii. *Sharrock* de fin. p. 157. *Whitby*'s Eth. c. 6. *Cumberland* de Leg. Nat. c. 5. § 5. *Clarke*'s Evid. of Nat. and Rev. Religion, p. 96.

12. *Utr.* Virtutis & vitii Leges ſint æternæ & immutabiles?

Aff. *Le Grand* Inſtit. Phil. P. 10. c. 8. *Cudworth* on Etern. and Immut. Moral. c. 1. cæterique ad quæſt. præc. citati. In quo ſenſu intelligi debet hæc quæſtio, vid. in *Norris*'s Miſcell. p. 370. *Conybeare*'s Def. of Reveal'd Relig. p. 147. *Locke*'s Eſſay, B. iv. c. 11. § 14. Eſſay on Moral Obligation, c. 3. *W. Law*'s Caſe of Reaſon, p. 51. *Edm. Law*'s Notes on *King* de Orig. Mali, n. 57. *Locke*'s Eſſay, B. iv. c. 11. § 14.

Neg. *Hobbes*, Leviathan, c. 10. De Cive, c. 1.

13. *Utr.* Natura virtutis in mediocritate ponatur?

Aff.

Aff. *Ariſt.* Eth. L. ii. c. 6. *Euſtach.* Eth. p. 71. *Philoſ. Burgund.* Tom. I. p. 332. *Crellii* Ariſt. Eth. P. ii. c. 5. *Mori* Enchirid. Eth. L. ii. c. 9.

Neg. *Grotius* de Jure B. & P. Proleg. § 43. *Barbeyrac*'s Pref. to *Pufendorf*, p. 61. *Wollaſton*'s Relig. of Nat. p. 24. *Le Grand* Inſtit. Philoſ. P. x. c. 7.

14. *Utr.* Virtutum diſtributio in quatuor Cardinales; *viz.* Prudentiam, Temperantiam, Fortitudinem & Juſtitiam, ſit juſta & maxime propria?

Aff. *Cic.* de Offic. L. i. *Philoſ. Burgund.* Tom. I. p. 337. *Le Grand* Inſtit. Philoſ. P. x. c. 9.

Neg. *Peripatetici* alias diviſiones inſtituunt. *Ariſtot.* Eth. *Crellii* Eth. Ariſtotel. *Mori* Enchir. Eth. L. ii.

15. *Utr.* Bona Intentio ad Bonitatem actûs ſufficiat?

Neg. *Sanderſon* Præl. de Conſcient. ii. p. 27.

16. *Utr.* Veritas quà veritas ſit proſequenda? Sive,

Utr. Alium verbis decipere ſit ſimpliciter illicitum?

Aff. *Wollaſton*'s Relig. of Nat. S. i. Prop. 4. *Whitby* Eth. L. ii. c. 5. § 12.

Neg. *Grotius* de Jure B. & P. L. iii. c. 1. § 12. *Puſendorf*'s Law of Nat. B. iv. c. 1. § 7, 16. *Barbeyrac* in loc. *Moſs*'s Serm. Vol. II. Serm. x.

17. *Utr.* Juramentum à latrone vi & metu extortum obliget?

Aff. *Sanderſon* de Juram. Oblig. Præl. iv. § 15, 17. *Grotius* de Jure B. & P. L. ii. c. 13. § 14.

Neg. *Cic.* de Offic. L. iii. c. 29. *Senec.* 1. Controv. 6. *Puſendorf*'s Law of Nat. B. iv. c. 2. § 8. De Offic. Hom. & Civ. L. i. c. 11. § 6.

18. *Utr.* Conſcientia erronea obliget?

Aff. *Taylor*'s Ductor. Dubit. B. i. c. 3. p. 102. *Whitby*'s Eth. Compend. p. 27. *Oſtervaldi* Eth. p. 47. *Sanderſon* de Conſcient. Præl. i. *Sharpe*'s Serm. Vol. II. *Puſendorf* de Off. Hom. & Civ. L. i. c. i. § 7.

19. *Utr.* Conſcientia invincibiliter erronea ſit inculpabilis?

Aff.

Aff. Auctores ſupra citati.

20. *Utr.* Leges humanæ conſcientiam obligent?

Aff. *Taylor's* Ductor. Dub. B. iii. c. 1. *Sanderſon* de Conſc. Præl. v. § 6.

21. Conſcientia ſit lumen mentis innatum?

Aff. *Sanderſon* de Conſc. Præl. iv. § 24. Vid. ſupra, Qu. 2, 3.

22. *Utr.* Voluntas Dei ſit ſola adæquata conſcientiæ regula?

Vid. ſupra, Qu. 8.

23. *Utr.* Hæc regula, *Quod dubitas ne feceris*, ſit in rebus moralibus admittenda?

Aff. *Pufendorf* de Offic. H. & C. L. i. c. 1. § 6. *Sanderſon* de Obligatione Conſc. Præl. vi. § 17. *Taylor* Ductor. Dubit. B. i. c. 5. De milite dubitante, vid. infra, Qu. 45.

24. *Utr.* Suicidium ſit licitum?

Aff. *Perſian* Letters. Philoſophical Letters concerning Death. Life of *C. Blount*.

Neg. *Adams* on Self-Murder. *Fleetwood's* Sermons on the Subject. *Sherlock* on Death,

Death, Provid. c. 7. p. 249, 252. *Law's* Notes on *King*, p. 456. n. z.

25. *Utr.* Culpâ non communicatâ, communicari poſſit pæna?

Neg. Grotius de Jure B. & P. L. ii. c. 21. § 9. *Pufendorf*'s Law of Nat. B. i. c. 9. § 2, 10. B. viii. c. 3. § 31. c. 4. § 32. *Taylor*'s Ductor. Dubit. Vol. II. p. 121.

26. Volenti fieri poſſit injuria?

Neg. Philoſ. Burgund. Tom. I. p. 356. *Crellii* Eth. P. ii. c. 18. p. 143.

27. *Utr.* Paſſiones ſint innatæ?

Aff. Whitby's Eth. c. 8. *Malebranche*'s Search after Truth, B. v. c. 1. *Jac. Ode* Theol. Nat. p. 171. *Le Grand* Inſtit. Philoſ. P. x. c. 13.

Neg. Locke, B. ii. c. 20. Sunt, qui earum originem ab uſu & Idearum aſſociatione derivant. *Law*'s Prelim. Diſſert. to *King*. Eſſay on Moral Obligation, c. 5. *Hutcheſon* on the Paſſions. *Watts* on the Paſſions.

28. *Utr.* Paſſiones ſint vitioſæ?

Neg. Euſtach. Eth. p. 55. *Le Grand* Inſtit. Phil. P. x. c. 13. *Philoſ. Burgund.* Tom.

Tom. I. p. 431. *Oſtervaldi* Eth. Chriſtiana, p. 33. *Whitby*'s Eth. p. 85. *Mori* Eth. Ench. L. i. c. 6. *Wollaſton*'s Relig. of Nat. p. 174. *Watts* on the Uſe and Abuſe of the Paſſions, § 13. Dr. *J. Clarke* on Natural Evil, p. 256. *Scott*'s Chriſtian Life, P. ii. c. 1. S. 2. par. 23. Notes on *King* de Orig. Mali, *n.* M. *Chambers*'s Cyclopæd. ad voc. PASSION.

29. Amor & averſio ſint generales affectus, ex quibus cæteri omnes naſcuntur?

Aff. *Philoſ. Burgund.* p. 423. *Law*'s Prelim. Diſſert. to *King*, p. 63. *Locke*'s Eſſay, B. ii. c. 20.

30. *Utr.* Ex appetitu ſenſitivo major ſit voluptas quam ex rationali?

Aff. *Epicurei* & *Hobbeſiani.*

Neg. *Sharrock* de fin. p. 20. *Cumberland* de Leg. Nat. *Wollaſton*'s Religion of Nat.

II. *De* STATU NATURÆ.

31. *Utr.* Exiſtat Lex naturæ?

Aff. *Sharrock* de fin. c. 2. p. 204. *Cumberland* de Leg. Nat. c. 2. *Parker*'s

ker's Demonſtr. of the Law of Nature, P. i. § 1. A Diſſertation on the Law of Nat. annex'd to *Maxwell*'s Tranſlation of *Cumberland* de Leg.

Neg. *Hobbes* de Hom. P. i. c. 13, 26, & *paſſim.*

32. *Utr.* Detur jus gentium a jure naturæ diſtinctum?

Aff. *Grotius* de Jure B. & P. Proleg. § 17, 40. & L. iii. c. 4. § 15.

Neg. *Hobbes* de Cive, c. 6, 14.

Sed Locutiones, *Jus Naturæ* & *Jus Gentium*, nonnulli auctores commiſcent, perinde ac alii *Jus Gentium* & *Jus Civile*. *Juſtinian.* Inſtit. L. i. tit. 2. *Puſendorf*'s Law of Nat. B. ii. c. 3. § 21. & B. viii. c. 1. Idem de Offic. Hom. L. ii. c. 1. *Calvini* Lexic. Jurid. ad voc. JUS.

35. *Utr.* Status Naturæ ſit ſtatus Belli?

Aff. *Hobbes*'s Leviath. P. i. c. 13. Idem de Cive *paſſim.*

Neg. *Plato* de Leg. L. i. pr. *Cumberland* de Leg. Nat. L. ii. c. 2. *Sharrock* de fin. p. 136. *Locke* upon Government, B. ii. c. 2, 3. *Puſendorf*'s Law of Nat. B. ii. c. 2. Ejuſdem Diſſert. Academ. p. 582. Et Elem. Juriſprud. p. 273. *Lowde*'s Diſc. con-

concerning Man, c. 5. *Parker*'s Dem. of the L. of Nat. P. i. § 4. *Innes*'s al. *Campbell*'s Enq. into the Orig. of Moral Virtue.

36. In ſtatu naturæ unicuique jus competat in omnia?

Aff. *Hobbs* de Cive, c. 1. § 10.

Neg. *Cumberl.* de Leg. Nat. c. 2. *Pufend.* Law of Nat. L. ii. c. 2. § 5. L. iii. c. 5. § 3.

37. *Utr.* Omnes homines ſint natura æquales?

Aff. *Hooker*'s Eccl. Pol. B. i. *Hoadly*'s Exam. of the Patr. Scheme. *Locke* on Gov. B. ii. c. 2. *Pufendorf*'s L. of Nat. B. iii. c. 2. § 2. *Wollaſton*'s Rel. of Nat. S. 6.

Neg. *Filmer*'s Patriarcha. *Ramſey*'s Eſſay on Civ. Govern. Hereditary Right.

31. *Utr.* Jus Dei in creaturas fundetur in ejus ireſiſtibili potentia?

Aff. *Hobbs*, Leviath. c. 31.

Neg. *Pufendorf*'s Law of Nature, B. i. c. 6. § 10. *Cumberland* de Leg. c. 7. § 7.

III. *De* STATU CIVILI.

38. *Utr.* Status civilis, vel Imperium civile, oriatur ex pactis?

Aff. *Locke* on C. Gov. *per tot.* *Sidney* on Governm. *Hoadly's* Or. & Inſt. of Civil Gov. *Hooker's* Eccl. Pol. B. i. § 10. *Sharrock* de Fin. p. 274. *Cumberl.* de L. Nat. Proleg. § 26. *Temple's* Miſcell. Vol. I. p. 45. Univ. Hiſt. Vol. I. p. 171. *Puſendorf's* L. of Nat. B. iii. c. 2. & B. vii. c. 1. § 7. *Grotius* de Jure, Proleg. § 15. L. i. c. 3. § 8. *Wollaſton's* Relig. of Nature, S. 6.

Neg. Sunt, qui a Deo per Patriarchas originem ducunt. *Filmer's* Patriarcha. *Leſly* on the Origin. of Civ. Govern.

39. *Utr.* Supremo magiſtratui reſiſtere liceat, ſi aliter Reſpub. ſervari nequit?

Aff. *Grotius* de Jure B. & P. L. i. c. 4. § 7. & L. ii. c. 4. § 14. *Puſendorf's* L. of Nat. B. ii. c. 8. *Sidney* on Govern. c. 3. § 36. *Locke* on Govern. B. ii. c. 18. *Miltoni* Defenſ. Pop. Angl. *Hoadly's* Orig. and Inſtit of Civil Government. *Tyrrell's* Biblioth. Politic. *Sharrock* de fin. p. 287.

Neg. *Hobbs*, Leviath. c. 20. De Cive, c. 7. § 14. *Filmer's* Patriarcha, c. 2. p. 72. Freeholder's Grand Inqueſt. *B---d's* Hereditary Right. *Taylor's* Ductor Dubit. B. iii. c. 3.

Argumenta ex utraque parte, vid. in *Sacheverell's* Tryal.

40. *Utr.* In imperio civili fides data ſummum magiſtratum obliget?

Aff. Sharrock de Fin. p. 277. *Grot.* de Jure, *&c.* L. i. c. 3. § 16.

Neg. Hobbs, Leviath. c. 18.

41. *Utr.* Salus Populi ſit ſuprema lex?

Aff. Sanderſon de Conſc. Præl. ix. *Buddæi* Philoſ. Pract. P. iii. c. 3. Unà cum auctoribus in Qu. 38. affirmantibus.

Neg. Machiav. de Rep. *Hobbs*'s Leviath.

42. *Utr.* Liceat principi ſubditos alienos contra gravem & manifeſtam imperantis injuriam bello defendere?

Aff. Grotius de Jure B. & P. L. ii. c. 25. § 8. L. iii. c. 1. § 21. *King*'s State of the Proteſt. in *Ireland*, c. 1. Vid. Q. 39.

43. Bellum aliquod juſtum ſit jure naturæ?

Aff. Grotius de Jure, *&c.* L. i. c. 2. *Puſendorf*'s Law of Nat. B. viii. c. 6.

44. *Utr.* Militibus dubitantibus, an Bellum ſit juſtum necne, militandum ſit?

Aff. Sanderſon de Conſcient. Præl. vi. § 17. *Taylor* Duct. Dubit. B. i. c. 5.

 p. 184.

p. 184. *Sharpe*'s Sermons, V. II. p. 289. *Pufendorf*'s Law of Nat. B. viii. c. 1. § 8.

Neg. *Grotius* de Jure B. & P. L. ii. c. 26. § 4.

45. *Utr.* Civem innocentem liceat noſtri tradere, ut evitetur imminens Reip. ruina?

Aff. *Grotius* de Jure B. & P. L. ii. c. 25.

Neg. *Pufendorf*'s Law of Nat. B. viii. c. 2. § 5.

46. *Utr.* Legati in eum, ad quem mittuntur, delinquentes ſint jure gentium ab eodem puniendi?

Neg. *Grot.* de Jure, &c. L. ii. c. 18. § 4.

47. *Utr.* Mare jure liberum ſit?

Aff. *Grotii* Mare Liberum.

Neg. *Seldeni* Mare Clauſum. *Pufendorf*'s Law of Nat. B. iv. c. 5. § 5.

48. *Utr.* In res quæ ſingulorum ſunt propriæ jus omnibus competat extremæ neceſſitatis & innoxiæ utilitatis?

Aff. *Grotius* de Jure, L. ii. c. 2. § 6. *Pufendorf*'s Law, &c. B. ii. c. 6. § 5.

Neg. *Wollaſton*'s Rel. of Nat. p. 28.

A P-

APPENDIX
DE
LEGIBUS DISPUTANDI
EX
ADRIANI HEEREBOORD
PRAXI LOGICA Excerpta.

UT debitè inſtituatur diſputatio, nonnulla circa ejus *materiam*, alia circa ejus *formam* ſunt obſervanda.

I. Circa materiam diſputationis ſunt hæ tenendæ regulæ.

1. Quicquid excedit captum diſputantium, de eo nulla fiat diſputatio [a].

2. Quicquid controverſum non eſt, objectum diſputationis eſſe non debet.

3. Materia diſputationis ſit utilis & gravis, & ad veritatem indagandam inſtituta [b].

[a] Sic in ſcholis philoſophicis non ſunt tractandæ theſes theologicæ; nec in quæſtione philoſophicâ petenda ſunt argumenta ex ſacris literis.

[b] Sic quæſtiones ex intimis diſciplinarum (ethicæ, phyſicæ, vel metaphyſicæ) penetralibus petitæ iis præferendæ ſunt, quæ vel ſunt merè logomachiæ, vel de lanâ caprinâ inſtituuntur,

II.

II. Forma diſputandi conſiſtit in collatione, διαλέξει, ideoque ad eam diſtinctæ requiruntur perſonæ, inter quas διαλέξις & collatio mutua inſtitui queat : harum una impugnat alterius ſententiam, altera ſententiam ſuam tuetur & defendit. Prior *opponentis*, poſterior *reſpondentis* nomine venit.

Opponens & Reſpondens partes habent quaſdam communes, quaſdam proprias.

Canones utrique parti *communes* quidam ex Logica, quidam ex Ethica deſumuntur ; agendum enim in diſputando & Ethicè & Logicè.

1. Ad diſputationem ab utraque parte adferri debet animi bona intentio, quæ non gloriam, ſed veritatem quærat.

2. Adferri debet animus purus & liber ab omni præjudicio.

3. Neuter alterius partes ſuſcipiat, neque opponens in parte reſpondentis involet, aut contra.

4. Conveniant inter ſe de certis præcognitis principiis, ne de re utrimque conceſſa diſputetur.

5. Brevitati & perſpicuitati imprimis ſtudeatur, omiſſis rhetoricationum ambagibus & longis declamationibus.

6. Patienter alter alterum exſpectet, dum orationem abſolvat.

7. Ab

7. Ab omni contumelia, convitio, calumnia, ac riſu ſycophantico, utrimque abſtineatur; & ante victoriam acceptam ne triumphetur.

8. Status controverſiæ firmiter utrimque ponatur, ac probe cognoſcatur, nec inter diſputandum mutetur.

Speciale utriuſque etiam eſt officium: ac primo *opponentis.*

1. *Opponentis* eſt 1. Theſin impugnare objectionem movendo; 2. Ad ſolutionem datam inſtare, excipiendo. Ut feliciter theſin impugnet, requiritur;

1. Ut ſententiæ reſpondentis directe contradicat; quod ut fiat, oportet ante omnia diligenter theſin reſpondentis conſiderare, & accurate deſpicere, quomodo ei antitheſis directe opponi poſſit.

2. In theſibus reſpondentis, ſi plures ſint, ut fere eſſe ſolent, examinandis, accurate diſtinguat opponens argumenta ſeu rationes quibus theſes probantur, ab ipſis theſibus quibus probandis adhibentur; aliud enim eſt argumenta deſtruere, aliud theſin evertere. Itaque aliter eſt verſandum circa theſin, aliter circa theſeos probationem.

3. In examine probationis conſideretur, num argumenta theſi conveniant, num eidem

dem probandæ ſufficiant, an vero aliena ſint à theſi ac minus firma.

4. Theſin autem ipſam expendere oportet, utrum ſit affirmativa an negativa, univerſalis an particularis, ſynonymica an paronymica ; adeoque, ſecundum affectiones logicas enunciationis eam examinare oportet.

5. Tum oportet formare antitheſin & directam oppoſitionem ſecundum leges contradictionis, quas præſcribit Logica ; & non contradicendum verbis tantum theſeos, ſed ſenſui & menti ipſius adverſarii.

6. Si quis non directam antitheſin faciat, facile committit peccatum illud quod vocant ignorantiam elenchi.

7. Theſi expenſa, cogitandum eſt opponenti de termino medio, qui invenitur utrumque concluſionis membrum deducendo per loca inventionis aut affectiones logicas, vel afferendo authoritates quæ non poſſunt rejici.

8. Terminus medius cum partibus quæſtionis ſyllogiſmo bono comprehendatur.

9. Sed in mediorum inventione delectus eſt habendus, neque enim argumenta omnia æque ponderoſa ſunt.

10. De auctoritate hoc etiam tenendum, non eſſe extra theologiam utendum multâ authoritate.

11. Ar-

11. Argumentum, ſyllogiſtica forma breviſſime & perſpicue incluſum, clare proponatur; ac, ſi fieri poſſit, forma plerumque ſit categorica.

12. Duplici genere argumentationis uti poteſt opponens; & directa ſeu offenſiva, & ea quæ ducit ad abſurdum.

13. Præterea, non ea tantum moveat argumenta quæ ex problematis natura peti poſſunt, ſed etiam quæ ex adverſarii hypotheſi ſequuntur.

14. Imprimis urgere poteſt reſpondentem ex conceſſis.

15. Ante omnia attendat diligentiſſime opponens, ut propoſitionem, vel negatam vel diſtinctam, eandem aſſumat, ac faciat ſui ſyllogiſmi concluſionem.

16. Semper legitimos & bonos ſyllogiſmos producat, conformes legibus ſyllogiſticis.

17. Si figura argumenta ſui repudietur, requirat canonem logicum in quem peccet, aut ſi ipſe viderit, ſtatim corrigat.

18. Si ad materiam reſpondeatur, ut plerumque, videat an ſit diſtinctio vocis ambiguæ, an limitatio, an negatio.

19. Si ad diſtinctionem aut limitationem reſpondeatur, reſponſio ad leges & canones diſtinctionis & limitationis examinetur.

IV. Speciale officium *reſpondentis* eſt, argumentum aſſumere opponentis & ſovere.

1. Reſpondens non aſſumat, niſi jam dicendi finem fecerit opponens.

2. Iiſdem verbis repetat, quibus argumenta fuerunt propoſita.

3. Si opponentis argumentum ſit vitioſum, vel obſcuritate laboret, monebit eum reſpondens; vel ſi juvandus ſit opponens, tum licebit evidentioribus verbis & alia figura idem argumentum proponere.

4. Si opponens prolixa utatur declamatione, vel confuſa argumentatione, vel obſcura locutione, monebit reſpondens, ut breviter & clare proponatur argumentum in certa figura ac modo.

5. In aſſumendo argumento prius conſiderabit ejus figuram, poſtea materiam.

6. Si forma ſit vitioſa, rejiciatur, indicato vitio.

7. Ubi argumenti formam rectam eſſe viderit; ac reſpondere cogitat, videat primum, an concluſio recte feriat ſuam theſin.

8. Si non recte ei opponatur, non eſt neceſſe reſpondere aliud, quam quod ignoratio elenchi ſit.

9. Si concluſio ſit multiplex, diſtinguatur: diſtinctione adhibita, oſtendatur in quantum

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quantum contradicat ſuæ theſi, & adhibeatur reſponſio.

10. A concluſione tranſeundum ad præmiſſas, & primum ad majorem, deinde ad majorem, deinde ad minorem.

11. Propoſitiones veræ concedendæ ſunt, falſæ negandæ, ambiguæ diſtinguendæ.

12. Si propoſitio univerſalis ſit ſimpliciter falſa, adferenda eſt inſtantia ad falſitatem univerſalem oſtendendam.

14. Major propoſitio neganda ſi ſit hypothetica, debet negari conſequentia; ſi disjunctiva, disjunctio; ſi categorica, ſimpliciter neganda.

15. Si diſtinctio adhibeatur majori, eadem eſt applicanda minori & concluſioni.

16. Nunquam vero reſponderi debet negando, ſi ſolve poſſit argumentum diſtinguendo & limitando,

17. Major rarius falſa eſt aperte, ſed ſæpius ambigua; ideoque frequentius diſtinguenda ac limitanda, quam neganda.

18. Minor rarius venit limitanda, vel diſtinguenda, ſæpius neganda.

19. Nunquam ad minorem reſpondendum eſt, niſi conſtiterit ac certum ſit majorem eſſe extra omne vitium.

20. Imo minor nunquam limitanda eſt, niſi limitata majore.

21. Si

21. Si authoritates reſpondenti objiciantur virorum doctiſſimorum, illæ non ſunt arroganter ipſi rejiciendæ; ſed aut conciliet eas cum ſua ſententia; aut, ſi non poſſit, alterius viri æque clari ac docti adducat argumentum.

22. Licebit & reſpondenti interdum reſponſione uti indirecta, & argumentum retorquere in opponentem, vel aliud fortius adducere.

23. Nunquam tamen eſt utendum indirecta reſponſione, niſi prius ſit reſponſum directe.

FINIS.